

# CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

P.O. BOX 780 • FARMINGTON, NEW MEXICO 87499

26 December, 1990

RECEIVED  
DEC 31 1990

State of Utah Department of Natural Resources  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Building, Suite 350  
Salt Lake City, Utah 84180-1203

DIVISION OF  
OIL, GAS & MINING

Ref: Sundry Notice: Runway 10C-5A Well  
Skid Rig/Change Name

Gentlemen

Attached for your examination and approval is the original and two copies of the subject Sundry Notice.

Please advise if you require additional information concerning this submission.

Sincerely,

Larry G. Sessions  
Operations Manager

LGS/csw  
File: C:\WP51\RUNWAY.10C\CHGLOC.CVR

encl.

ENTITY ACTION FORM - FORM 6

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION				COUNTY	SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG			
A	99999	11152	<del>43-037-30566</del>	<del>Runway 10C</del>	NE/NW	10	40S	25E	San Juan	12-13-90	
WELL 1 COMMENTS:											
Skidded Energy Search Rig #2 from Runway 10C-5 location. Spudded 0300 hrs, 12-22-90.											
Runway 10C-5A - 43-037-31597 (1-4-91) Runway 10C-5A											
WELL 2 COMMENTS:											
Indian-Lease Proposed Zone- Akah Field- Undesignated (New entity 11152 added 1-14-91) fep Unit- N/A											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

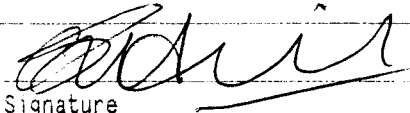
ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.  
(3/88)

DEC 31 1990

Oil & Gas Division

  
Signature  
Petroleum Engineer  
Title  
Phone No. 505-326-5525  
Date 12-26-90

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT--" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NOG 8702-1116	
2. NAME OF OPERATOR Chuska Energy Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo Tribal	
3. ADDRESS OF OPERATOR 3315 Bloomfield Highway, Farmington, New Mexico 87401		7. AGREEMENT NAME 	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 96' FNL, 2360' FWL  At proposed prod. zone Same		8. FARM OR LEASE NAME Runway 10C WELL NO. 5A	
14. PERMIT NO. 31597 43-037-31566		15. ELEVATIONS (Show whether DF, RT, GR etc.) 5,245' GR	
		10. FIELD AND POOL, OR WILDCAT Runway/Paradox 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA S10 T40S R25E	
		12. COUNTY OR PARISH San Juan	
		13. STATE Utah	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

APPROX. DATE WORK WILL START \_\_\_\_\_

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) Change name/location <input checked="" type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log Form)

DATE OF COMPLETION 12-22-90

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS: (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

\* Must be accompanied by a cement verification report.

Skidded Energy Search Rig #2 from Runway 10C-5 location. New location as follows:

96' FNL, 2360' FWL

Well name changed to RUNWAY 10C-5A.

18. I hereby certify that the foregoing is true and correct

SIGNED

Christopher S. W. Hill

TITLE Petroleum Engineer

DATE 26 December, 1990

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE



# CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

P.O. BOX 780 • FARMINGTON, NEW MEXICO 87499

26 December, 1990

State of Utah Department of Natural Resources  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Building, Suite 350  
Salt Lake City, Utah 84180-1203

Ref: Sundry Notice: Runway 10C-5A Well  
Spud/Set Surface Casing

DEC 31 1990  
DIVISION OF  
OIL, GAS & MINING

Gentlemen

Attached for your examination and approval is the original and two copies of the subject Sundry Notice.

Please advise if you require additional information concerning this submission.

Sincerely,

*Larry G. Sessions*  
Larry G. Sessions  
Operations Manager

LGS/csw  
File: C:\WP51\RUNWAY.10C\SPD5ASUN.CVR

encl.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

# SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.

Use "APPLICATION FOR PERMIT--" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. NOG 8702-1116
2. NAME OF OPERATOR Chuska Energy Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo Tribal
3. ADDRESS OF OPERATOR 3315 Bloomfield Highway, Farmington, New Mexico 87401		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 12 below.) At surface 96' FNL, 2360' FWL		8. FARM OR LEASE NAME Runway 10C
At proposed prod. zone Same		9. WELL NO. 5A
14. PERMIT NO. 43-037-31566		10. FIELD AND POOL, OR W. LOCAT Runway/Paradox
15. ELEVATIONS (Show whether DF, RT, GR etc.) 5,245' GR		11. SEC., T., R., M., OR B.L. AND SURVEY OR AREA S10 T40S R25E
		12. COUNTY OR PAR. SH San Juan
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

APPROX. DATE WORK WILL START

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
(Other) Spud/Surface Casing	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log Form)

DATE OF COMPLETION 12-23-90

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS: (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

\* Must be accompanied by a cement verification report.

Skidded Energy Search Rig #2 from Runway 10C-5 location. Spudded 0300 hrs, 12-22-90. Drilled to 525'. Ran 12 joints 8 5/8", 24 lb/ft, K-55, STC casing with guide shoe and float collar and landed at 520'. Cemented with 375 sx Class 'G' with 2% CaCl<sub>2</sub> and 1/4 lb/sk Celloflake. Displaced with water - did not bump plug (pressure gauges on pump truck not working - frozen). Released pump pressure - float held. Circulated 18 bbl slurry to pits. Annulus dropped 24'. Topped up with 15 sx Class 'G' cement. Notification of spud given to State of Utah (Frank Matthews) at 0920 hrs, 12-21-90, by Chris Hill

I hereby certify that the foregoing is true and correct

SIGNED

TITLE Petroleum Engineer

DATE 26 December, 1990

(This space for Federal or State office use)

18

APPROVED BY  
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

See Instructions On Reverse Side

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

# APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/> <b>PLUG BACK</b> <input type="checkbox"/>		5. Lease Designation and Serial No. <b>NOG 8702-1116</b>
1b. Type of Well Oil <input type="checkbox"/> Gas <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone <input type="checkbox"/>		6. If Indian, Allottee or Tribe Name <b>Navajo Tribal</b>
2. Name of Operator <b>Chuska Energy Company</b>		7. Well Agreement Name
3. Address of Operator <b>P.O. Box 780, Farmington, New Mexico 87499</b>		8. Farm or Lease Name <b>Runway 10C</b>
4. Location of Well (Report location clearly and in accordance with any state requirements.) At Surface <b>96' FNL, 2360' FWL</b> <b>RIG SKID</b> At proposed prod. zone <b>Same</b> <b>NE-NW</b>		9. Well No. <b>5A</b>
14. Distance in miles and direction from nearest town or post office <b>8 miles North of Aneth, Utah</b>		10. Field and Pool, or Wildcat <b>Runway/Paradox</b> <i>Undesignated</i>
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drilg. line, if any) <b>1,042'</b>	16. No. of acres in lease <b>49,997</b>	11. 40, Sec., T., R., N., or S. and Survey or Area <b>S10 T40S R25E</b>
18. Distance from proposed location to nearest well, drilling, completed, or spudded for, on this lease, ft. <b>2,400'</b>	19. Proposed depth <b>6,275' GR AKAH</b>	12. County or Parish <b>San Juan</b>
21. Elevations (Show whether OP, RT, GR, etc.) <b>5,245' GR</b>	20. Rotary or Cable tools <b>Rotary</b>	13. State <b>Utah</b>
22. Approx. date work will start <b>12-18-90</b>		
23. PROPOSED CASING AND CEMENTING PROGRAM		
Size of Hole	Size of Casing	Weight per Foot
<b>12 1/4"</b>	<b>8 5/8"</b>	<b>24 lb</b>
<b>7 7/8"</b>	<b>5 1/2"</b>	<b>15.5 lb</b>
Setting Depth		Quantity of Cement
<b>500'</b>		<b>371 sx 'G' + 2% CaCl<sub>2</sub></b>
<b>6,275'</b>		<b>867 sx 'G', 65:35 Poz + 6% Gg</b>

Rig skidded 26' South after from Runway 10C-5 well (after P & A of that well due to deviation problems), as per advice to F. Matthews (by Chris Hill, 0920 hrs, 12-21-90) and subsequent Sundry Notice. 10-Point drilling plan etc remain unchanged from Runway 10C-5 submission.

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 1-2-91  
BY: F. Matthews

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present production zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. I hereby certify that this report is true and complete to the best of my knowledge.

Signed Chris Hill

Title Petroleum Engineer

Date 2 January, 1991

(This space for Federal or State-office use)

API No. 43-037-31597

Approval Date

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

Approved by  
Conditions of approval, if any:

Title

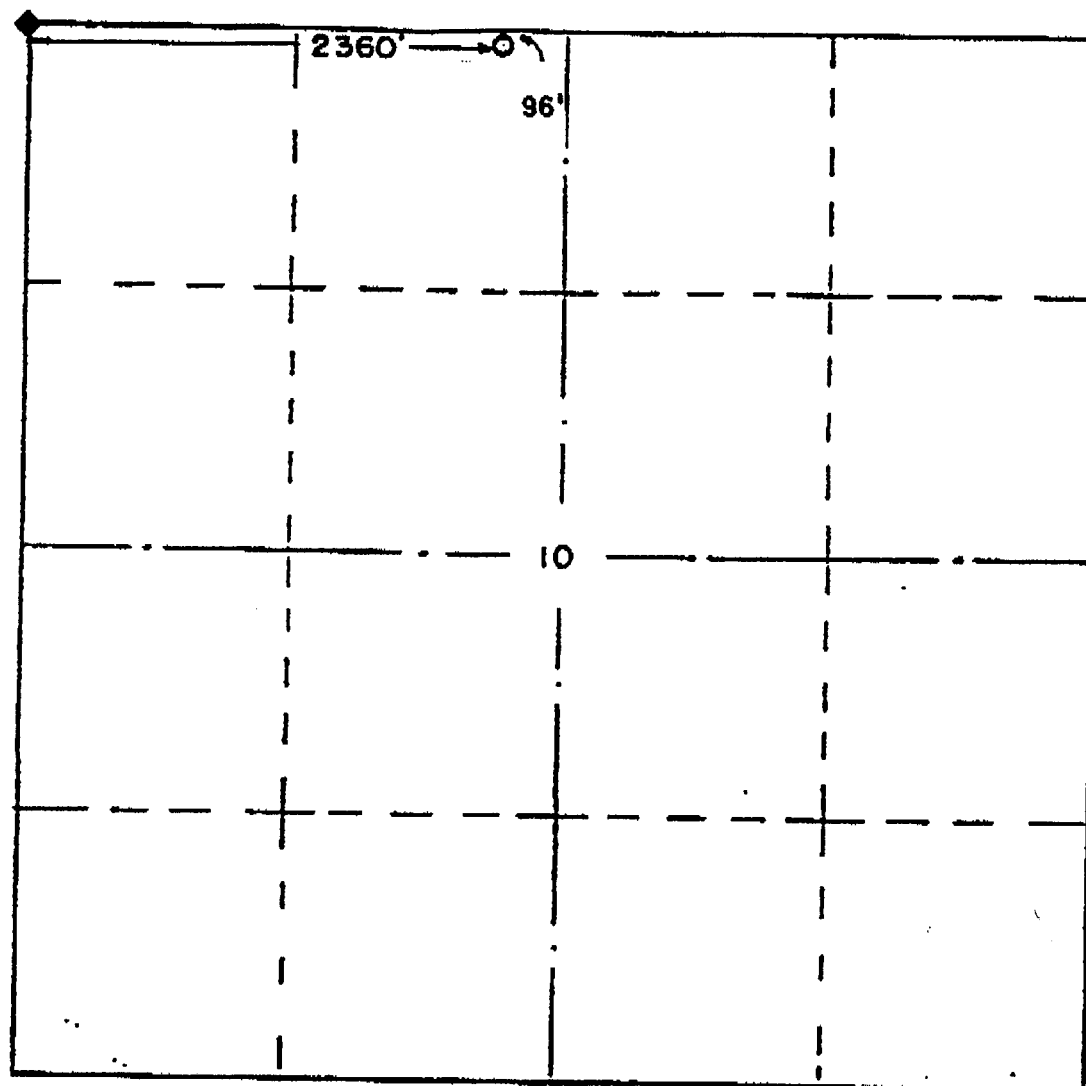
DATE: 1-4-91

BY: F. Matthews

WELL SPACING: 6/5-3-3

\*See Instructions On Reverse Side

## WELL LOCATION AND ACREAGE DEDICATION PLAT



## WELL LOCATION DESCRIPTION:

CHUSKA ENERGY COMPANY, Runway 10 - C - 5A

96' FNL &amp; 2360' FWL

Section 10, T.40 S., R.25 E., SLM

San Juan, UT.

5245' ground elevation

State plane coordinates from seismic control:

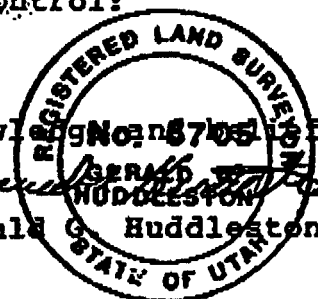
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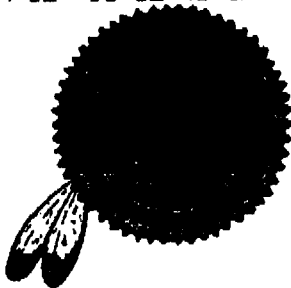
y = 250,060

The above plat is true and correct to my knowledge.

13 September 1990

Gerald G. Huddleston, LS



**CHUSKA ENERGY COMPANY**

3315 BLOOMFIELD HIGHWAY • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

P.O. BOX 780 • FARMINGTON, NEW MEXICO 87499

**FAX COVER LETTER****Date:** 1-2-91**From:** CHUSKA, FARMINGTON - CHRIS HILL Telephone: (505) 326-5525**To:** STATE OF UTAH - SANDY Facsimile: (505) 325-5423  
Transmitted From: Ricoh  
Fax35\*\*\*\*\*  
Number of Pages (Including this page) 4

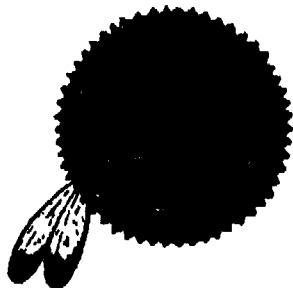
Please advise at the above telephone number if any problems are encountered.

\*\*\*\*\*

**Message/Instructions:**

APD FOR RUNWAY 10C-SA, AS  
REQUESTED.





# CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

P.O. BOX 780 • FARMINGTON, NEW MEXICO 87499

## BY FACSIMILE

2 January, 1991

State of Utah Department of Natural Resources  
Division of Oil, Gas and Mining

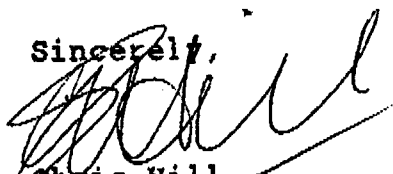
Attn: Frank Matthews/Sandy

Ref: Application for Permit to Drill  
Runway 10C-5A Well, San Juan County, Utah

Dear Sandy

Further to your telephone call earlier today, please find attached an APD for the Runway 10C-5A well and location plat. Please advise if you require any further information.

Sincerely,



Chris Hill  
Petroleum Engineer

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
DRILLING AND WELL PLUGGING INSPECTION FORM

COMPANY: Chuska Energy COMPANY MAN: Kenny Hayes  
WELL NAME: Runway 10#5A API #: 43-037-  
QTR/QTR: NE/NW SECTION: 10 TWP: 40S RANGE: 25E  
CONTRACTOR: Energy Search #2 PUSHER/DRLR: \_\_\_\_\_  
INSPECTOR: Glenn DATE: 1/3/91 OPERATIONS: Fishing  
SPUD DATE: \_\_\_\_\_ TOTAL DEPTH: \_\_\_\_\_

DRILLING AND COMPLETIONS

☒ APD ☒ WELL SIGN ☒ BOPE ☒ RESERVE PIT  
☒ FLARE PIT ☒ BURN PIT ☒ H2S ☒ BLOOE LINE  
☒ SANITATION ☒ HOUSEKEEPING \_\_\_\_\_ VENTED/FLARED

PLUGGING AND ABANDONMENT

PRODUCING FM(S): \_\_\_\_\_

PLUGS:

TYPE/SIZE

INTERVAL

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

PERFORATIONS: \_\_\_\_\_

CASING SIZE: \_\_\_\_\_ PULLED: YES / NO CUT AT: \_\_\_\_\_

PLUGS TESTED: \_\_\_\_\_ HOW: \_\_\_\_\_ WOC: \_\_\_\_\_

MARKER: \_\_\_\_\_ SURFACE: \_\_\_\_\_ PLATE: \_\_\_\_\_

RECLAMATION:

CONTOURED: \_\_\_\_\_ RIPPED: \_\_\_\_\_ REHAB'D: \_\_\_\_\_

LEGEND: (Y)-YES (P)-PROBLEM (U)-UNKNOWN (BLANK)-NOT APPLICABLE

REMARKS: 1200' Stuck Pipe now Fishing

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

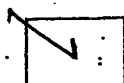
# RIG SKID

OPERATOR Chuska Energy Co N-9290 DATE 1-3-91  
 WELL NAME Runway 10C-5A  
 SEC NE1/4 10 T 40S R 05E COUNTY San Juan

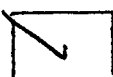
43.037.31597  
 API NUMBER

Indian (w)  
 TYPE OF LEASE

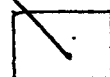
## CHECK OFF:



PLAT.



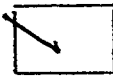
BOND



NEAREST  
WELL



LEASE



FIELD

SLBM



POTASH OR  
OIL SHALE

## PROCESSING COMMENTS:

Rig skid original APD approved 10-20-90 (43.037.31506)  
Water Limit 09-17-90 (T64794)

## APPROVAL LETTER:

SPACING:



R615-2-3

N/A  
 UNIT



R615-3-2



N/A  
 CAUSE NO. & DATE



R615-3-3

## STIPULATIONS:

CC BIA

CONFIDENTIAL  
 PERIOD  
 EXPIRED  
 ON 10-17-90



Norman H. Bangerter  
Governor  
Dee C. Hansen  
Executive Director  
Dianne R. Nielson, Ph.D.  
Division Director

# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

DRL

January 4, 1991

Chuska Energy Company  
P. O. Box 780  
Farmington, New Mexico 87499

Gentlemen:

Re: Rig Skid - Runway 10C-5A - NE NW Sec. 10, T. 40S, R. 25E - San Juan County, Utah - 96' FNL, 2360' FWL

Approval to drill the referenced well is hereby granted in accordance with Rule R615-3-3, Oil and Gas Conservation General Rules.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form 7.
4. Prompt notification if it is necessary to plug and abandon the well. Notify R. J. Firth, Associate Director, (Office) (801) 538-5340, (Home) 571-6068, or Jim Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Rule R615-3-20, Gas Flaring or Venting, Oil and Gas Conservation General Rules.

Page 2  
Chuska Energy Company  
Runway 10C-5A  
January 4, 1991

6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.
7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31597.

Sincerely,



R. J. Pirth  
Associate Director, Oil & Gas

tas  
Enclosures  
cc: Bureau of Land Management  
Bureau of Indian Affairs  
J. L. Thompson  
we14/1-2

Form 3160-5  
(Formerly 9-331)  
**RECEIVED**  
JAN 15 1990

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN THIS DATE\*  
(Other instructions on reverse side)  
**RECEIVED**

Form approved. *Larry*  
Budget Bureau No. 1004-0135  
Expires August 31, 1995

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT--" for such proposals.)

DEC 31 AM 9:10

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER	2. NAME OF OPERATOR Chuska Energy Company	3. ADDRESS OF OPERATOR 3315 Bloomfield Highway, Farmington, New Mexico	4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also source if on gov.) 96' FNL, 2360' FWL	5. LEASE DESIGNATION AND SERIAL NO. NOG 8702-1116	6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo Tribal	7. UNIT AGREEMENT NAME	8. FARM OR LEASE NAME Runway 10C	9. WELL NO. 5A	10. FIELD AND POOL, OR W. LOCAL Runway/Paradox	11. SEC., T. R. N., OR S.W. AND SURVEY OR AREA S10 T40S R25E	12. COUNTY OR PARISH San Juan	13. STATE Utah
14. PERMIT NO. 43-037-31566	15. ELEVATIONS (Show whether OF, RT, OR FWL) 5,245' GR	DIVISION OF OIL, GAS & MINING										

**RECEIVED**  
JAN 18 1991

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENT OR TO		SUBSEQUENT REPORT OF:					
TEST WATER SHUT-OFF	<input type="checkbox"/>	FULL OR ALTER GAS NG	<input type="checkbox"/>	WATER SHUT-OFF	<input type="checkbox"/>	REPAIR NG WELL	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	ABANDON	<input type="checkbox"/>	FRACTURE TREATMENT	<input type="checkbox"/>	ALTER NG GAS NG	<input type="checkbox"/>
SHOOT NG OF AC D E NG	<input type="checkbox"/>	ABANDONMENT	<input type="checkbox"/>	SHOOT NG OF AC D E NG	<input type="checkbox"/>	ABANDONMENT	<input type="checkbox"/>
STOP NG WELL	<input type="checkbox"/>	CHARGE PLUG	<input type="checkbox"/>	OTHER	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

NOTE: Report results of all tests and operations, including estimated date of starting or proposed work. If well is abandoned, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.

Skidded Energy Search, Page #2 from Runway 10C-5 location. New location as follows:

96' FNL, 2360' FWL

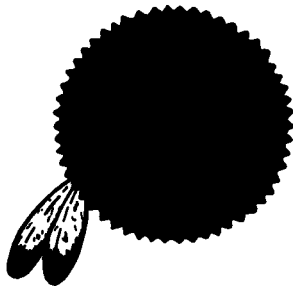
Well name changed to RUNWAY 10C-5A.

18. I hereby certify that the foregoing is true and correct.

SIGNED <i>Christopher S. W. Jr.</i>	TITLE Petroleum Engineer	APPROVED <b>AS AMENDED</b>
(This space for Federal or State Office use)		DATE DEC 31 1990
APPROVED BY CONDITIONS OF APPROVAL, IF ANY:	TITLE OPERATOR	for AREA MANAGER

\*See Instructions On Reverse Side





# CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

P.O. BOX 780 • FARMINGTON, NEW MEXICO 87499

24 January, 1991

State of Utah Department of Natural Resources  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Building, Suite 350  
Salt Lake City, Utah 84180-1203

Ref: Sundry Notice: Runway 10C-5A Well  
Production Casing

Gentlemen

Attached for your examination and approval is the original and two copies of the subject Sundry Notice.

Please advise if you require additional information concerning this submission.

Sincerely,

  
Larry G. Sessions  
Operations Manager

LGS/csw  
File: C:\WP51\RUNWAY.10C\PRCSGSUN.CVR

encl.

**RECEIVED**  
JAN 28 1991

DIVISION OF  
OIL, GAS & MINING



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

# SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or to recomplete a well. Use "APPLICATION FOR PERMIT--" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NOG 8702-1116	
2. NAME OF OPERATOR Chuska Energy Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo Tribal	
3. ADDRESS OF OPERATOR 3315 Bloomfield Highway, Farmington, New Mexico 87401		7. UNIT AGREEMENT NAME 	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 96' FNL, 2360' FWL		8. FARM OR LEASE NAME Runway 10C	
At proposed prod. zone Same		9. WELL NO. 5A	
14. PERMIT NO. 43-037-31597		10. FIELD AND POOL, OR WILDCAT Runway/Paradox	
15. ELEVATIONS (Show whether DF, RT, OR etc.) 5,245' GR		11. SEC., T., R., H., OR BLK. AND SURVEY OR AREA S10 T40S R25E	
12. COUNTY OR PARISH San Juan		13. STATE Utah	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)			

APPROX. DATE WORK WILL START \_\_\_\_\_

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other) Production Casing			<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log Form)

DATE OF COMPLETION 1-23-91

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS: (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

\* Must be accompanied by a cement verification report.

Drilled to 6,230' TD. Logged. RU and ran 150 joints 5 1/2", 15.5 lb/ft, J-55, LTC casing with guide shoe, float collar and stage collar. Landed at 6,225'. Cemented as follows:

Stage 1: Lead - 667 sx Class 'G', 35:65 Poz with 6% gel and 1/4 lb/sk Celloflake. Tail - 235 sx Class 'G' with 1/4 lb/sk Celloflake. Circulated between stages - approximately 25 bbl x slurry to pit.

Stage 2: Lead - 780 sx Class 'G', 35:65 Poz with 6% gel and 1/4 lb/sk Celloflake. Tail - 69 sx Class 'G' with 2% CaCl<sub>2</sub> and 1/4 lb/sk Celloflake. Circulated approximately 23 bbl x slurry to pit.

Rig released 2100 hrs, 1-23-91.

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE Operations Engineer

DATE 24 January, 1991

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING  
OIL AND GAS INSPECTION RECORD

MICROPHONE

OPERATOR CHUSKA LEASE Indian  
WELL NO. Runway 10C-5A API 43-037-31597  
SEC. 10 T. 40S R. 25E CONTRACTOR Energy Search #2  
COUNTY SJT FIELD \_\_\_\_\_

DRILLING/COMPLETION/WORKOVER:

<input checked="" type="checkbox"/> APD	<input checked="" type="checkbox"/> WELL SIGN	<input checked="" type="checkbox"/> HOUSEKEEPING	<input type="checkbox"/> BOPE
<input checked="" type="checkbox"/> SAFETY	<input checked="" type="checkbox"/> POLL. CONTROL	<input checked="" type="checkbox"/> SURFACE USE	<input checked="" type="checkbox"/> PITS
<input checked="" type="checkbox"/> OPERATIONS	<input type="checkbox"/> OTHER		

SHUT-IN \_\_\_\_\_ / TA \_\_\_\_\_:

<input type="checkbox"/> WELL SIGN	<input type="checkbox"/> HOUSEKEEPING	<input type="checkbox"/> EQUIPMENT*	<input type="checkbox"/> SAFETY
<input type="checkbox"/> OTHER			

ABANDONED:

<input type="checkbox"/> MARKER	<input type="checkbox"/> HOUSEKEEPING	<input type="checkbox"/> REHAB.	<input type="checkbox"/> OTHER
---------------------------------	---------------------------------------	---------------------------------	--------------------------------

PRODUCTION:

<input type="checkbox"/> WELL SIGN	<input type="checkbox"/> HOUSEKEEPING	<input type="checkbox"/> EQUIPMENT*	<input type="checkbox"/> FACILITIES*
<input type="checkbox"/> METERING*	<input type="checkbox"/> POLL. CONTROL	<input type="checkbox"/> PITS	<input type="checkbox"/> DISPOSAL
<input type="checkbox"/> SECURITY	<input type="checkbox"/> SAFETY	<input type="checkbox"/> OTHER	

GAS DISPOSITION:

<input type="checkbox"/> VENTED/FLARED	<input type="checkbox"/> SOLD	<input type="checkbox"/> LEASE USE
--	-------------------------------	------------------------------------

LEGEND: Y - YES OR SATISFACTORY  
N - NO OR UNSATISFACTORY  
NA - NOT APPLICABLE

\*FACILITIES INSPECTED: LOC

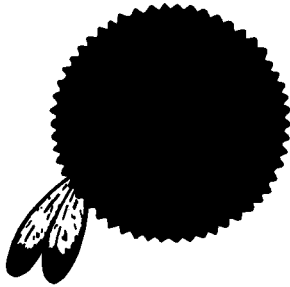
REMARKS: Rigging down moving off

ACTION: \_\_\_\_\_

INSPECTOR: MM

DATE: 1/24/91

IN36/1



# CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

P.O. BOX 780 • FARMINGTON, NEW MEXICO 87499

25 February, 1991

State of Utah Department of Natural Resources  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Building, Suite 350  
Salt Lake City, Utah 84180-1203

Ref: Sundry Notice: Runway 10C-5A Well  
First Sale of Oil

Gentlemen

Attached for your examination and approval is the original and two copies of the subject Sundry Notice.

Please advise if you require additional information concerning this submission.

Sincerely,

  
Larry G. Sessions  
Operations Manager

LGS/csw  
File: C:\WP51\RUNWAY.10C\10ILSUN.CVR

encl.

**RECEIVED**  
FEB 28 1991

DIVISION OF  
OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> Do not use this form for proposals to drill new wells, deepen existing wells, or to render plugged and abandoned wells. Use APPLICATION FOR PERMIT-- for such proposals.		6. Lease Designation and Serial Number NOG 8702-1116
		7. Indian Allottee or Tribe Name  Navajo Tribal
		8. Unit or Communitization Agreement
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify)		9. Well Name and Number Runway 10C 5A
2. Name of Operator Chuska Energy Company		10. API Well Number 43-037-31597 <i>pow</i>
3. Address of Operator 3315 Bloomfield Highway, Farmington, New Mexico 87401	4. Telephone Number 505-326-5525	11. Field and Pool, or Wildcat Runway/Paradox
5. Location of Well Footage : 96' FNL, 2360' FWL QG, Sec. T., R., M.: NE/4 NW/4 S10 T40S R25E		County: San Juan State: UTAH
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>NOTICE OF INTENT</b> (Submit in Duplicate)		<b>SUBSEQUENT REPORT</b> (Submit Original Form Only)
<input type="checkbox"/> Abandonment <input type="checkbox"/> New Construction <input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Recompletion <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Other _____		<input type="checkbox"/> Abandonment * <input type="checkbox"/> New Construction <input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Recompletion <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Water Shut-Off <input checked="" type="checkbox"/> Other <u>First Sale of Oil</u>
Approximate Date Work Will Start _____		Date of Work Completion <u>2-24-91</u> Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

First sale of oil from this well occurred on 2-24-91.

**RECEIVED**  
FEB 28 1991

DIVISION OF  
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct.

Name & Signature Christopher S.W. Hill *[Signature]* Title Operations Engineer Date 25 Feb 91

(State Use Only)



## INSTRUCTIONS

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filed prior to this time, all logs, tests, and directional surveys as required by Utah Rules should be attached and submitted with this report.

ITEM 18: Indicate which elevation is used as reference for depth measurements given in other spaces on this form and on any attachments.

ITEMS 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

ITEM 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

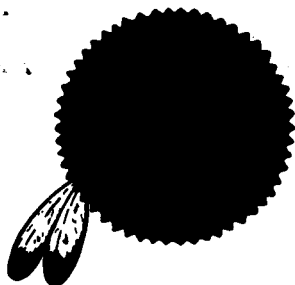
ITEM 33: Submit a separate completion report on this form for each interval to be separately produced (see instructions for items 22 and 24 above).

### 37. SUMMARY OF POROUS ZONES

Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut in pressures, and recoveries.

### 38. GEOLOGIC MARKERS

Formation	Top	Bottom	Description, contents, etc.	Name	Top	
					Meas. Depth	True Vert. Depth
Desert Creek	6076	6102	Dolomite, Limestone	Hermosa	4831	4831
Desert Creek	6102	6131	Limestone, Dolomite	Upper Ismay	5848	5848
Desert Creek	6138	6143	Limestone	Hovenweep Shale	5963	5963
Desert Creek	6159	6164	Limestone, Dolomite	Lower Ismay	5967	5967
Core #1	6083	6114	Desert Creek: recovered 100%	Gothic Shale	6019	6019
Core #2	6114	6145	Desert Creek: recovered 100%	Desert Creek	6040	6040
Core #3	6145	6176	Desert Creek: recovered 100%	Chimney Rock Shale	6175	6175
				Akah	6197	6197



# CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

20 March, 1991

State of Utah Department of Natural Resources  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Building, Suite 350  
Salt Lake City, Utah 84180-1203

**RECEIVED**

MAR 25 1991

DIVISION OF  
OIL GAS & MINING

Ref: Completion Report: Runway 10C-5A Well

Gentlemen

Attached for your examination and approval is the original and two copies of the subject Completion Report.

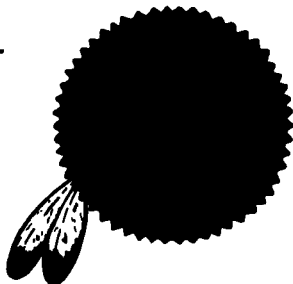
Please advise if you require additional information concerning this submission.

Sincerely,

*Larry G. Sessions*  
Larry G. Sessions  
Operations Manager

LGS/csw  
File: C:\WP51\RUNWAY.10C\CRCOVER

encl.



# CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

25 March, 1991

**RECEIVED**

**MAR 28 1991**

State of Utah Department of Natural Resources  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Building, Suite 350  
Salt Lake City, Utah 84180-1203

**DIVISION OF  
OIL GAS & MINING**

Ref: Sundry Notice: Runway 10C-5A Well  
First Sale of Gas

Gentlemen

Attached for your examination and approval is the original and two copies of the subject Sundry Notice.

Please advise if you require additional information concerning this submission.

Sincerely,

*Larry G. Sessions*  
Larry G. Sessions  
Operations Manager

LGS/csw  
File: C:\WP51\RUNWAY.10C\1GASSUN.CVR

encl.



13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

RECEIVED

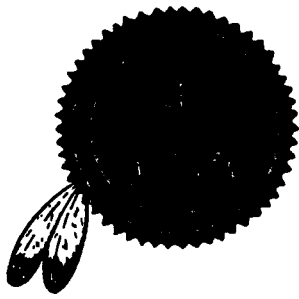
**MAR 28 1991**

## DIVISION OF OIL GAS & MINING

Name & Signature Christopher S.W. Hill Title Operations Engineer Date 25 Mar 91

(8/90)

See Instructions on Reverse Side



# CHUSKA ENERGY COMPANY

1775 SHERMAN STREET - SUITE 1800 • DENVER, COLORADO 80203 • PHONE: (303) 863-7021  
FAX #: (303) 863-7210

May 17, 1991

Ms. Vicki Kearney  
Utah Oil & Gas Commission  
355 West North Temple  
Three Triad Center  
Suite 350  
Salt Lake City, Utah  
84180-1203

Dear Ms. Kearney:

Please keep all Chuska Energy Company data confidential until further notice.

Thanks,

Herbert P. Mosca  
Chuska Staff Geologist

**RECEIVED**

MAY 20 1991

DIVISION OF  
OIL GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. NOG 8702-1116
2. Name of Operator Chuska Energy Company	6. If Indian, Allottee or Tribe Name Navajo Tribal
3. Address and Telephone No. 3315 Bloomfield Highway, Farmington, NM 87401 505-326-5525	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 96'FNL & 2360' FWL Section 10-Township 40S-Range 25E	8. Well Name and No. Runway 10C-5A
	9. API Well No. 43-037-31597
	10. Field and Pool, or Exploratory Area Wildcat
	11. County or Parish, State San Juan County, Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other <u>Workover</u>	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Converted flowing well to pumping well on 6-30-93.

**RECEIVED**

ACCEPTED BY THE STATE OCT 13 1993  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING DIVISION OF  
OIL, GAS & MINING

DATE: 10-14-93

BY: JAT

14. I hereby certify that the foregoing is true and correct

Signed

Title

Operations Manager

Date

7-7-93

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Tax credit 10/29/93

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See instruction on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Chuska Energy Company

3. Address and Telephone No.

3315 Bloomfield Highway, Farmington, NM 87401 505-326-5525

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

96' FNL & 2360' FWL  
Section 10-Township 40S-Range 25E

5. Lease Designation and Serial No.

NOG 8702-1116

6. If Indian, Allottee or Tribe Name

Navajo Tribal

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Runway 10C-5A

9. API Well No.

43-037-31597

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

San Juan County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Workover  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Propose to convert flowing well to pumping well on or about 6-30-93.

**RECEIVED**

OCT 13 1993

ACCEPTED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DIVISION OF  
OIL, GAS & MINING

DATE: 10-14-93

BY: JAN Matthews

14. I hereby certify that the foregoing is true and correct

Signed [Signature]

Title

Operations Manager

Date

5-21-93

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

**STATE OF UTAH**  
**DIVISION OF OIL, GAS AND MINING**  
 355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203

Page 2 of 3

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

LARRY G SESSIONS  
 CHUSKA ENERGY COMPANY  
 3315 BLOOMFIELD HWY  
 FARMINGTON NM 87401

UTAH ACCOUNT NUMBER: N9290REPORT PERIOD (MONTH/YEAR): 12 / 93AMENDED REPORT ☐ (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
RUNWAY 10-E #2								
✓4303731550	11128	40S 25E 10	DSCR					
MONUMENT 17E #2								
✓4303731547	11139	40S 25E 17	DSCR					
NAVAJO CANYON 331 #1								
✓4303731546	11145	39S 25E 33	IS-DC					
LONE MOUNTAIN CREEK 12F #1								
✓4303731545	11148	42S 24E 12	DSCR					
RUNWAY 10C-5A								
✓4303731597	11152	40S 25E 10	DSCR					
BLUE HOGAN 1J #1								
✓4303731562	11161	42S 23E 1	DSCR					
ASAZI 5L #3								
✓4303731572	11207	42S 24E 5	PRDX					
NW CAJON 11 #1								
✓4303731510	11210	40S 24E 1	DSCR					
BROWN HOGAN 1A #2								
✓4303731573	11215	42S 23E 2	PRDX					
STERLING 36L #1								
✓4303731595	11224	41S 23E 36	PRDX					
MULE 31-K-1								
✓4303731617	11326	41S 24E 31	DSCR					
NORTH HERON 35C								
✓4303731616	11479	41S 25E 35	DSCR					
BURRO 311								
✓4303731708	11496	41S 24E 31	DSCR	No Card/K/DTS NO FILE		✓ done / 693		
TOTALS								

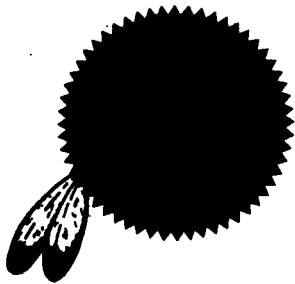
COMMENTS: \_\_\_\_\_

I hereby certify that this report is true and complete to the best of my knowledge.

Date: \_\_\_\_\_

Name and Signature: \_\_\_\_\_

Telephone Number: \_\_\_\_\_



# HARKEN SOUTHWEST CORPORATION

(formerly Chuska Energy Company)

We are pleased to announce that effective January 18, 1994, Chuska Energy Company, has changed its name to Harken Southwest Corporation. This is in line with the February 1993 merger with Harken Exploration Company.

Harken Southwest Corporation is still located at 3315 Bloomfield Highway, Farmington, New Mexico, 87401. You may still contact us at (505) 326-5525.

Please reflect this name change as necessary on all future correspondence.

Thank you for your assistance in this matter and we look forward to working with you as Harken Southwest Corporation.

Sincerely,

Barry A. Wieland  
Operations Manager

RECEIVED

FEB 07 1994

DIVISION OF  
OIL, GAS & MINING

## PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☐ Well File \_\_\_\_\_☐ Suspense  
(Return Date) \_\_\_\_\_  
(To - Initials) \_\_\_\_\_☒ Other  
*Open. Nm. Change*  
\_\_\_\_\_  
\_\_\_\_\_(Location) Sec \_\_\_\_\_ Twp \_\_\_\_\_ Rng \_\_\_\_\_  
(API No.) \_\_\_\_\_1. Date of Phone Call: 2-9-94 Time: 12:292. DOGM Employee (name) L. Cordova (Initiated Call ☒)  
Talked to:Name Wayne Townsend (Initiated Call ☐) - Phone No. (505) 599-8900  
*(or Ken Townsend)*  
of (Company/Organization) Btm / Farmington N.M.3. Topic of Conversation: Chuska Energy Co. to Harken Southwest Corp.

4. Highlights of Conversation: \_\_\_\_\_

They have not rec'd doc. of name change. When they do receive doc. they  
will most likely keep "Chuska" as operator yet mail any correspondence  
% Harken, until BIA approval. (BIA approval may take a while!)

\* 940210 Per Admin. OK to change.

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

Routing:

1-REC	7-SJ
2-DTS	8-FILE
3-VLC	
4-RJE	
5-LEO	
6-PL	

Attach all documentation received by the division regarding this change.  
 Initial each listed item when completed. Write N/A if item is not applicable.

- ☐ Change of Operator (well sold)      ☐ Designation of Agent  
☐ Designation of Operator      ☒ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 1-18-94)

TO (new operator) <b>HARKEN SOUTHWEST CORPORATION</b> FROM (former operator) <b>CHUSKA ENERGY COMPANY</b>
(address) <b>3315 BLOOMFIELD HWY</b> (address) <b>3315 BLOOMFIELD HWY</b>
<b>FARMINGTON NM 87401</b> <b>FARMINGTON NM 87401</b>
phone ( 505 ) 326-5525 phone ( 505 ) 326-5525
account no. <b>N 9290</b> account no. <b>N9290</b>

Well(s) (attach additional page if needed):

Name: <b>**SEE ATTACHED**</b>	API: <b>037.31597</b>	Entity: _____	Sec. _____	Twp. _____	Rng. _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec. _____	Twp. _____	Rng. _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec. _____	Twp. _____	Rng. _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec. _____	Twp. _____	Rng. _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec. _____	Twp. _____	Rng. _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec. _____	Twp. _____	Rng. _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec. _____	Twp. _____	Rng. _____	Lease Type: _____

**OPERATOR CHANGE DOCUMENTATION**

- See 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Rec'd 2-7-94)
- N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
- See 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) yes If yes, show company file number: #096704.
- See 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- See 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (2-10-94)
- See 6. Cardex file has been updated for each well listed above. (2-10-94)
- See 7. Well file labels have been updated for each well listed above. (2-10-94)
- See 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission.
- See 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.



## ENTITY REVIEW

- Yes 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

## BOND VERIFICATION (Fee wells only)

- N/A Yes 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
2. A copy of this form has been placed in the new and former operators' bond files.
3. The former operator has requested a release of liability from their bond (yes/no)     . Today's date                      19    . If yes, division response was made by letter dated                      19    .

## LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated                      19    , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- N/A 2. Copies of documents have been sent to State Lands for changes involving State leases.

## FILMING

- ✓ 1. All attachments to this form have been microfilmed. Date: March 7 1994.

## FILING

- Yes 1. Copies of all attachments to this form have been filed in each well file.
- Yes 2. The original of this form and the original attachments have been filed in the Operator Change file.

## COMMENTS

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
SEP 07 1995  
FOIL GAS & MIN

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well  
☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
Harken Southwest Corporation

3. Address and Telephone No.  
P.O. Box 612007 Dallas, Texas 75261-2007 (214) 753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
See Attached List

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name  
NAVAJO

7. If Unit or CA, Agreement Designation

8. Well Name and No.  
See Attached List

9. API Well No. 43037-31597

10. Field and Pool, or Exploratory Area  
See Attached List

11. County or Parish, State  
San Juan, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other Flaring during plant shut-down	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Pursuant to the attached notice from Elkhorn Operating, Harken Southwest request permission to vent/flare all non-lease use gas from September 18, 1995 thru September 22, 1995 or until the Aneth Plant resumes operation.

Attached is a list of wells which will be affected by the plant shut down. The list is compiled in API number order.

Should any questions arise, please contact Mr. Richard Cottle, Farmington, New Mexico @ (505) 327-5531 or the undersigned.

cc: Navajo Nation  
State of Utah

14. I hereby certify that the foregoing is true and correct

Signed Richard Montgomery Title Production Administrator Date Sept 6, 1995

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

## HARKEN SOUTHWEST CORPORATION

Request permission to flare/vent gas production on the following wells during the shut-down of the Aneth Plant Monday, September 18 thru Friday, September 22, 1995.

<u>Well Name</u>	<u>Sec-Twnshp-Rng</u>	<u>API Number</u>
Navajo Tribal 23-13	13-40S-24E	43-037-30971
Navajo Tribal 41-2	02-42S-24E	43-037-31041
Sahgzie #1	05-42S-24E	43-037-31472
Anasazi #1	05-42S-24E	43-037-31478
Cajon Mesa 8D-1	08-40S-25E	43-037-31497
Monument 8N-2	08-40S-25E	43-037-31509
Runway 10G-1	10-40S-25E	43-037-31515
Monument 17E	17-40S-25E	43-037-31547
Runway 10E-2	10-40S-25E	43-037-31550
Blue Hogan 1J-1	01-42S-23E	43-037-31562
Anasazi 5L-3	05-42S-24E	43-037-31572
Brown Hogan 1A-2	01-42S-23E	43-037-31573
Runway 10C-5A	10-40S-25E	43-037-31597
North Heron 35C	35-41S-25E	43-037-31616
Burro 31-I	31-41S-24E	43-037-31708
Jack 31G	31-41S-24E	43-037-31709
Mule 31M	31-41S-24E	43-037-31710
Big Sky 6E (6L)	06-42S-25E	43-037-31714
Hillside 6C-1	06-42S-25E	43-037-31721



ELKHORN OPERATING COMPANY  
ANETH PLANT  
P.O. BOX 70  
MONTEZUMA CREEK, UTAH 84534  
**Memorandum**



**To:** See Distribution List  
**From:** Gene Gruette  
**Date:** August 18, 1995  
**Subject:** ANETH PLANT SHUTDOWN

---

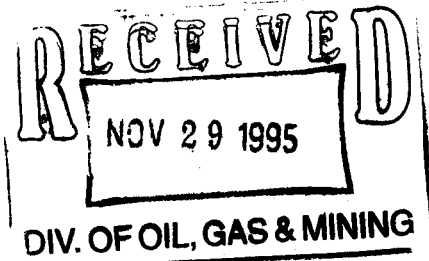
Aneth Plant will be shut down on September 18, 1995 to make necessary repairs to the cooling tower, inspect and clean gas coolers, and repair other equipment which requires a plant shutdown.

We plan to have the plant started back up the afternoon of Friday, September 22, 1995.

Each operator will need to make whatever contacts with regulatory agencies and gas marketers, etc. they deem necessary.

Should you have questions, call the writer at (801)631-3254.

CHUSKA ENERGY COMPANY  
RUNWAY #10-C-5A  
SECTION 10, T40S, R23E  
SAN JUAN COUNTY - UTAH



CORE #1: DESERT CREEK 6083'-6114' - CUT 31' - RECOVERED 31'

CORE DESCRIPTION

		CORE DESCRIPTION
6083.5	DOL	dkgybrn, micxl-vfxl, suc, rthy, v rr anhy, slty, sl lmy, fr-g intxl-pp vug POR, g v fnt dull yel FLOR, g brn STN, g fast stmg mlky CUT, fr OD
6084.5	DOL	AA, mbrn, abnt scat anhy xl, fr intxl-fr pp vug POR, g ltbrn STN, g mod fast stmg mlky CUT, fr-g OD
6087.7	DOL	AA, rr scat anhy xl, POR AA, FLOR-STN-CUT AA, fr OD
6088.9	DOL	gy-brn, crpxl, vfxl-suc ip, sl anhy, cln-slsly, lmy, tt-rr intxl-tr-fr pp vug POR, g mod bri yel FLOR, tr ltbrn STN, slo-mod stmg mlky CUT, fnt OD
6089.3	DOL	AA, tr anhy incl, tr crin fos, tt-tr-intxl-pp vug POR, tr-fr dull-bri yel FLOR, tr ltbrn STN, v slo stmg mlky CUT, v fnt-n OD
6091.1	LS	ltgybrn, crpxl-micxl, occ vfxl-suc, v dol, tr anhy xl, occ anhy incl, tr intxl-rr pp vug POR, fr dull-tr spty bri yel FLOR, rr-tr ltbrn STN, slo-mod fast stmg mlky CUT, vfnt-n OD
6093.4	LS	AA, tr styl, tr blk carb mud incl, rr intxl-v rr pp vug POR, tr dull-rr spty bri yel FLOR, v rr ltbrn STN, v p slo stmg-slo dif CUT, n OD
6094.5	LS	gy, micxl, crpxl ip, slsly-cln, tr blk carb mud incl, tr anhy incl-rr anhy incl, rr intxl-fr pp vug POR, fr dull-rr spty bri yel FLOR, tr ltbrn STN, fr mod fast stmg mlky CUT, tr OD
6096.2	LS	gybrn, crpxl-micxl, vfxl-slsuc ip, sl dol, vslsly-cln, tr anhy xl, tr blk carb mud incl, rr-tr inxl-tr pp vug POR, tr dull-tr bri yel FLOR, rr ltbrn STN, fr slo-mod fast stmg mlky CUT, tr OD
6097.1	LS	AA, occ gy, slty, incr mic-vfxl, fr intxl-fr pp vug POR, g dull-tr bri yel FLOR, fr ltbrn STN in vugs, g fast stmg mlky CUT, tr OD
6099.6	LS	ltbrn, crpxl-micxl, occ vfxl, vslsly-cln, rr anhy xl, v rr blk carb mud incl, g intxl-fr pp vug POR, g dull-bri yel FLOR, fr ltbrn STN, g mod fast stmg mlky CUT

CORE #1 cont.

6100.8	DOL	lt-mbrn, crpxl-vfxl, suc, lrg anhy incl, rthy-slt, vsl lmy, g intxl-rr pp vug POR, g dull yel FLOR, g ltbrn STN, g fast stmg mlky CUT, fr OD
6103.5	LS	ltgybrn, micxl, cln, vslslt, styl, tr blk carb mud incl, tr anhy incl-occ anhy xl, v rr intxl POR, NFSOC
6105.8	DOL	gy, micxl, lmy, vslslt-cln, dns, tt, NFSOC
6107.6	LS	gy-brn, crpxl-micxl, vfxl ip, abnt anhy incl-xl, tr crin fos, tt, NFSOC
6109.8	LS	AA, gy, tr blk carb mud incl, v dol ip, tt-tr frac, v rr intxl POR, v rr vfnt dull orng mnrl FLOR, NSOC
6111.7	LS	ltbrn, crpxl, occ micxl, cln-vslslt, vsl dol, abnt anhy xl-incl, rr blk carb mud incl, tt-v rr intxl POR, tr vfnt dull yel FLOR, n vis STN, v p slo dif-resid ring CUT, n OD
6113.4	LS	ltbrn, crpxl-vfxl, sl anhy-tr anhy xl, fos-cor, cln-slslt, tr blk carb mud incl, v rr intxl-fr pp-3/4" vug POR, g bri yel FLOR, tr dkbrn STN in vugs, g fast stmg CUT, g OD
6114.0	LS	ltgy-ltbrn, crpxl, occ vfxl, abnt anhy xl-incl, tr blk carb mud incl, tt-v rr intxl-rr frac, tr dull-rr spty bri yel FLOR, tr spty mnrl FLOR, v rr slo dif-n CUT, n OD

CHUSKA ENERGY COMPANY  
 RUNWAY #10-C-5A  
 SECTION 10, T40S, R23E  
 SAN JUAN COUNTY - UTAH

CORE #2: DESERT CREEK 6115.2'-6145.2' - CUT 31' - RECOVERED 31'

CORE DESCRIPTION

6115.2	LS	ltgy tan, crpxl-micxl, occ vfxl tt-p intxl POR, tr pp vug POR, anhy xl, tr blk carb mud incl, dkbrn STN in vugs, g bri yel FLOR, sl stmg yel CUT
6116.3	LS	ltgy, ltbrn, micxl-fxl, sl anhy-tr anhy xl, p intxl POR, occ ltbrn STN, fr dull yel FLOR, slo stmg yel CUT
6116.7	DOL	mgy, gybrn, micxl-vfxl, sl anhy-occ anhy xl, p intxl POR, occ pp vugs, ltbrn STN, g bri yel FLOR, slo stmg yel CUT, p OD
6117.8	DOL	mbrn, gybrn, micxl-vfxl, suc, g pp vug, g intxl & vug POR, sm anhy xl in vugs, mbrn STN, g dull-spty bri yel FLOR, mod fast stmg yel CUT, g OD
6119.6	DOL	lt-mgy, micxl, anhy xl-incl, anhy ip, fr intxl-g pp vug POR, g mbrn STN in vugs, g bri yel FLOR, g fast stmg yel CUT, p OD
6120.3	DOL	mgy, micxl, suc, sm anhy xl, fr intxl-g pp vug POR, g dkbrn STN in vugs, g dull yel-spty bri yel FLOR, mod fast stmg yel CUT, g OD
6121.9	LS	tan, ltgy, micxl, anhy-anhy xl, tr blk carb mud incl, p intxl-tr pp vug POR, spty bri yel FLOR, tr ltbrn STN, p slo-mod stmg yel CUT
6123.6	LS	ltgy, tan, micxl-fxl, fr intxl-pp vug POR, fos frags, tr blk carb mud incl, occ anhy xl, g bri yel FLOR, dkbrn STN in vugs, g mod-fast stmg yel CUT, pp-1/2" vugs
6124.5	LS	lt-mgy, micxl-fxl, anhy-anhy xl, fr intxl-g pp-1/2" vug POR, tr blk carb mud incl, lt-mbrn STN in vugs, sm drlg mud invasion, spty bri yel FLOR around vugs, immed stmg yel CUT
6127.1	LS	ltgy, micxl, occ fxl, sl suc, anhy xl, fr intxl-g pp-1/2" vug POR, occ blk carb mud incl, g bri yel FLOR, dkbrn STN in vugs, g mod fast stmg yel CUT
6128.5	LS	mgy tan, micxl-vfxl, anhy-anhy xl, fr intxl-g pp vug POR, blk carb mud fl, g spty bri yel FLOR, lt-dkbrn STN, slo stmg yel CUT

CORE #2 cont.

6130.4	LS	mgý, tan, micxl-vfxl, sl suc, anhy xl-fl, fr intxl-pp vug POR, occ blk carb mud incl, dkbrn STN in vugs, p dull-spty bri yel FLOR, slo stmg yel CUT
6132.1	LS	mgý, mbrn, micxl-vfxl, anhy-anhy xl, tr fos frags, fr intxl-pp vug POR, dull yel-spty bri yel FLOR, tr ltbrn STN, slo-mod fast stmg yel CUT
6135.4	LS	m-dkgy, ltbrn, micxl-occ vfxl, sm anhy xl-fl, arg ip, tr fos frags, p-fr intxl-pp vug POR, tr blk carb mud incl, p spty dul-bri yel FLOR, slo stmg yel CUT, m-dkbrn STN
6136.1	LS	m-dkgy, mbrn, micxl-fxl, anhy xl-fl, fr-g intxl-pp vug POR, drlg mud invasion, g bri yel FLOR, lt-mbrn STN, p OD, mod stmg yel CUT
6137.4 g	DOL	mbrn, mgý, micxl-fxl, anhy xl, g intxl-pp vug POR, mbrn STN, bri yel FLOR, mod-fast stmg yel CUT, g OD
6138.4	DOL	brn, micxl-fxl, suc ip, tr ls incl, tr anhy incl-xl, g intxl-pp-1/2" vug POR, sm blk carb mud fl, g dull-spty bri yel FLOR, dkbrn STN, fr-g mod-fast stmg yel cut, p OD
6140.1	DOL	mbrn, micxl-vfxl, abnt anhy xl-fl, blk carb mud fl, tt-p intxl POR, mbrn STN, g spty bri yel FLOR, slo stmg yel CUT
6141.1	DOL	ltbrn, gybrn, crpxl-micxl, anhy, tt-p intxl POR, dull orng mnrl FLOR, NSOC
6142.2	DOL	mbrn, micxl, lmy, slty, tt-p intxl POR, anhy nods, dull orng mnrl FLOR, NSOC
6143.5	DOL	mbrn, crpxl-micxl, lmy, slty, tt-p intxl POR, tr anhy fl, dull orng mnrl FLOR, NSOC
6145.2	DOL	mbrn, crpxl-micxl, fos frags, anhy fl, tt-p intxl POR, dull orng mnrl FLOR, NSOC



CHUSKA ENERGY COMPANY  
 RUNWAY #10-C-5A  
 SECTION 10, T40S, R23E  
 SAN JUAN COUNTY - UTAH

CORE #3: DESERT CREEK 6145'-6176' - CUT 31' - RECOVERED 31'

CORE DESCRIPTION

6146.2	DOL	mbrn, micxl-vfxl, rthy, slty, vsl lmy, fos, fr intxl POR, NFSOC
6147.2	DOL	AA, dkgybrn, vrthy, slty, vshly, sl lmy w/dkgy sh incl, tr-n intxl POR, NFSOC
6148.4	DOL	mbrn, micxl-vfxl, sl suc, rthy, slty, rr anhy xl, tr carb mud incl, styl, fr intxl POR, NFSOC
6151.0	DOL	ltbrn, micxl, occ vfxl, rthy, slty, vsl lmy, rr anhy xl, fr-g intxl POR, NFSOC
6152.3	DOL	ltbrn, crpxl-vfxl, rthy-cln, slsly, sl lmy, tr anhy incl-xl, tr-fr intxl-rr pp vug POR, tr spty bri yel FLOR, v rr-n vis STN, fr mod stmg mlky CUT, v fnt-n OD
6153.5	LS	ltbrn, crpxl-micxl, cln-vslsly, tr blk carb sh incl, styl, vsl anhy, dns, tt, NFSOC
6155.8	DOL	ltbrn, micxl, rthy, slty, lmy, tr thn carb SH bnd, tt, NFSOC
6158.4	LS	ltgy-brn, crpxl-vfxl, occ suc, sl dol, slsly, rr carb mud incl, tr anhy xl, tr Brac fos, rr-tr intxl-tr pp vug POR, fr dull-bri yel FLOR, tr ltbrn STN, fr mod fast stmg CUT, fnt OD
6160.8	LS	AA, Brac fos, POR AA, pred fr dull yel-tr bri yel FLOR, tr ltbrn STN, CUT AA, v fnt OD
6161.9	DOL	gybrn-ltbrn, crpxl-micxl, v lmy, slty, slrthy-cln, tr scat anhy xl, tr intxl POR, tr bri yel FLOR, rr lt-dkbrn STN, tr fast stmg CUT, n OD
6163.2	DOL	ltbrn, micxl, occ vfxl, styl, blk carb sh ptg, rthy, slsly, tr anhy incl, tt-v rr intxl POR, NFSOC
6164.6	LS	dkgy, crpxl, sl sil, dns, tr anhy xl, tr trnsi cht incl, tt, NFSOC
6165.8	LS	brn, crpxl, dns, tt, tr Brac fos, NFSOC
6168.3	SH	dkgybrn, lmy, dol, rthy, slty, abnt Brac-Play fos, slcarb

CORE #3 cont.

6170.6	SH	AA, tr pyr xl, carb
6173.0	SH	dkgy, lmy, dol, rthy, slty, carb
6175.5	SH	AA, bcmg blk, plty

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.

NOG 8707-1170

6. If Indian, Allottee or Tribe Name

Navajo

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

Runway Lease

9. API Well No.

43-037-31515 & 31597

10. Field and Pool, or Exploratory Area

11. County or Parish, State

San Juan, Utah

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Harken Southwest Corporation

3. Address and Telephone No.

P.O. Box 612007 Dallas, Texas 75261-2007 (972) 753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Section 10-40S-25E

(10G-1-1710' FNL & 2450' FEL:

10C-5A-96' FNL & 2360' FWL)

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Venting  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

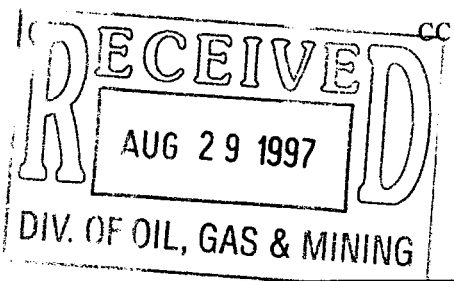
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Elkhorn experienced a line leak; verbal permission to vent gas was obtained from the Farmington District BLM office. In order to continue production, it was necessary to vent the following gas volumes on August 12, 1997:

Runway 10G-1 39 MCF

Runway 10C-5A 22 MCF



CC:

State of Utah  
Navajo Nation  
BIA - Gallup

14. I hereby certify that the foregoing is true and correct

Signed

Title

Production Administrator

Date

08/26/97

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

43-037-31597

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Harken Southwest Corporation

3. Address and Telephone No.

P.O. Box 612007 Dallas, Texas 75261-2007 (972) 753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

40, 41 & 42S - 23, 24 & 25S  
Various Sections

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name

Navajo Nation

7. If Unit or CA, Agreement Designation

8. Well Name and No.

See attached

9. API Well No.

See attached

10. Field and Pool, or Exploratory Area

11. County or Parish, State

San Juan County, UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☒ Altering Casing  
☒ Other Gas venting

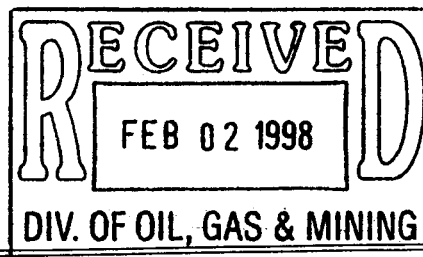
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water  
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Attached please find the summary sheet for the gas vented by Harken Southwest during December, 1997 and January, 1998 due to the explosion and subsequent problems at the Aneth Gas Plant.

If additional information is required, please contact the undersigned at (972) 753-6900.

CC: State of Utah  
Navajo Nation - Minerals Dept  
BIA - Gallup, NM



14. I hereby certify that the foregoing is true and correct

Signed

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title Production Administrator

Date 01/29/98

Title

Date

**MARKEN SOUTHWEST CORPORATION**  
**Gas Vented during Aneth Plant Shut-Down (12/97 & 1/98)**

Page 1 of 3

	Anasazi #1 43-037-31478 SW/NW Sec 5-42S-24E	Anasazi 5L-3 43-037-31572 NW/SW Sec 5-42S-24E	Sahgzie 1 43-037-31472 SW/NW Sec 5-42S-24E	Anasazi 6H-1 43-037-31744 SE/NE Sec 6-42S-24E	Navajo Tribal 41-2 43-037-31041 NE/NE Sec 2-42S-24E	Navajo Tribal 23-13 43-037-30971 NE/SW Sec 13-40S-24E	Runway 10C-5A 43-037-31597 NE/NW Sec 10-40S-25E	Runway 10G-1 43-037-31515 SW/NE Sec 10-40S-25E
<b>Vented Gas (MCF) December 1997</b>								
25-Dec	88	58	29	14		12	84	158
26-Dec	88	58	28	15		12	84	157
27-Dec	82	61	24	15		12	84	157
28-Dec	85	61	30	14		12	84	157
29-Dec	90	58	25	16	8	12	84	157
30-Dec	88	57	30	16		12	84	162
31-Dec	79	52	26	16		12	84	157
<b>Dec Total</b>	<b>600</b>	<b>405</b>	<b>192</b>	<b>106</b>	<b>8</b>	<b>84</b>	<b>588</b>	<b>1105</b>
<b>Vented Gas (MCF) January 1998</b>								
1-Jan	79	57	29	16	7	12	84	162
2-Jan	89	57	30	15		12	84	162
3-Jan	87	52	30	16		12	84	162
4-Jan	86	50	29	16		12	84	162
5-Jan	107	47	29	16	7	12	84	162
6-Jan	76	75	28	21		10	84	162
7-Jan	84	72	29	22		11	84	157
8-Jan	79	75	30	22		9	84	157
9-Jan	77	70	29	21	11	12	84	147
10-Jan	0	0	0	0	0	2	0	136
11-Jan	0	0	0	0	0	0	0	0
12-Jan	0	0	0	0	0	0	0	0
13-Jan	0	0	0	0	0	0	0	0
14-Jan	0	0	0	0	0	0	0	0
15-Jan	0	0	0	0	0	0	0	0
16-Jan	0	0	0	0	0	0	0	0
17-Jan	0	0	0	0	0	0	0	0
18-Jan	81	67	28	22	0	0	0	0
19-Jan	81	67	28	22	0	5	99	0
20-Jan	80	64	30	21	0	2	12	0
<b>Jan Total</b>	<b>1006</b>	<b>753</b>	<b>349</b>	<b>230</b>	<b>25</b>	<b>111</b>	<b>867</b>	<b>1569</b>
<b>Grand Total</b>	<b>1606</b>	<b>1158</b>	<b>541</b>	<b>336</b>	<b>33</b>	<b>195</b>	<b>1455</b>	<b>2674</b>

# HARKEN SOUTHWEST CORPORATION

## Gas Vented during Aneth Plant Shut-Down (12/97 & 1/98)

Page 2 of 3

	Runway 10E-2 43-037-31550 SW/NW Sec 10-40S-26E	Momentum 8N-2 43-037-31509 SE/SW Sec 8-40S-26E	Momentum 17E-2 43-037-31547 SW/NW Sec 17-40S-26E	Cajon Mesa 8D-1 43-037-31497 NW/NW Sec 8-40S-26E	Blue Hogan 1J-1 43-037-31562 NW/SE Sec 1-42S-23E	Brown Hogan 1A-2 43-037-31573 NE/NE Sec 1-42S-23E
<b>Vented Gas (MCF) December 1997</b>						
25-Dec	64	22		22	32	20
26-Dec	64	22	23	22	32	20
27-Dec	64	22		22	32	20
28-Dec	64	22		22	32	22
29-Dec	64	22	22	22	32	22
30-Dec	64	22		25	22	20
31-Dec	64	19		25	22	20
<b>Dec Total</b>	<b>448</b>	<b>151</b>	<b>45</b>	<b>160</b>	<b>204</b>	<b>144</b>
<b>Vented Gas (MCF) January 1998</b>						
1-Jan	64	20	22	25	22	21
2-Jan	64	22		25	20	20
3-Jan	64	22		25	20	20
4-Jan	64	22		25	22	20
5-Jan	64	21	15	25	22	20
6-Jan	64	21		25	22	22
7-Jan	64	21		25	22	22
8-Jan	64	21		25	22	22
9-Jan	64	22	22	25	22	22
10-Jan	8	0	0	22	40	4
11-Jan	0	0	0	0	0	0
12-Jan	0	0	0	0	0	0
13-Jan	0	0	0	0	0	0
14-Jan	0	0	0	0	0	0
15-Jan	0	0	0	0	0	0
16-Jan	0	0	0	0	0	0
17-Jan	0	0	0	0	44	21
18-Jan	0	0	0	0	44	21
19-Jan	69	23	14	21	10	23
20-Jan	13	4		5		
<b>Jan Total</b>	<b>666</b>	<b>219</b>	<b>73</b>	<b>273</b>	<b>332</b>	<b>256</b>
<b>Grand Total</b>	<b>1114</b>	<b>370</b>	<b>118</b>	<b>433</b>	<b>536</b>	<b>400</b>

**HARKEN SOUTHWEST CORPORATION****Gas Vented during Aneth Plant Shut-Down (12/97 & 1/98)**

Page 3 of 3

<div> <div>Mule 31M 43-037-31710 SW/SW Sec 31-41-24E</div> <div>Big Sky 6E(6L) 43-037-31714 NW/SW Sec 6-42S-25E</div> <div>Mule 31-K(N) 43-037-31617 NE/SW Sec 31-41S-24E</div> <div>DAILY TOTALS</div> </div>				
<b>Vented Gas (MCF) December 1997</b>				
25-Dec	25	62	25	715
26-Dec	25	94		744
27-Dec	20	94	21	730
28-Dec	19	90	21	735
29-Dec	28	62	29	753
30-Dec	22	62		686
31-Dec	23	62		661
<b>Dec Total</b>	<b>162</b>	<b>526</b>	<b>96</b>	<b>5024</b>
<b>Vented Gas (MCF) January 1998</b>				
1-Jan	22	62		704
2-Jan	23	63		686
3-Jan	23	63		680
4-Jan	23	63		678
5-Jan	23	63		717
6-Jan	22	63		693
7-Jan	23	63	21	720
8-Jan	23	63	21	717
9-Jan	23	64	21	736
10-Jan	0	64	0	276
11-Jan	0	0	0	0
12-Jan	0	0	0	0
13-Jan	0	0	0	0
14-Jan	0	0	0	0
15-Jan	0	0	0	0
16-Jan	0	0	0	0
17-Jan	0	0	0	0
18-Jan	23	73	0	359
19-Jan	25	73	21	613
20-Jan	23	2	23	312
<b>Jan Total</b>	<b>276</b>	<b>779</b>	<b>107</b>	<b>7891</b>
<b>Grand Total</b>	<b>438</b>	<b>1305</b>	<b>203</b>	<b>12915</b>

**STATE OF UTAH**  
**DIVISION OF OIL, GAS AND MINING**

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

## MONTHLY OIL AND GAS PRODUCTION REPORT

**OPERATOR NAME AND ADDRESS**

**HARKEN** Susan Herrera  
 RIM SOUTHWEST CORPORATION  
 C/O HOLCOMB OIL AND GAS, INC.  
 PO BOX 2058  
 FARMINGTON, NM 87499-2058

UTAH ACCOUNT NUMBER: N9290  
 REPORT PERIOD (MONTH/YEAR): 02/2001  
 AMENDED REPORT ☐ (Highlight Changes)

WELL NAME			Producing Zone	Well Status	Well Type	Days Oper	Production Volumes		
API Number	Entity	Location					OIL (BBL)	GAS (MCF)	WATER (BBL)
NAVAJO TRIBAL 23-13									
4303730971	09420	40S 24E 13	DSCR	P	OW	28	1,071	551	2,296
NAVAJO TRIBAL 41-2									
4303731041	09437	42S 24E 02	DSCR	P	OW	19	174	23	0
NAVAJO TRIBAL 32-26									
4303731060	09990	40S 22E 26	DSCR	P	OW	8	104	291	0
NAVAJO TRIBAL 14-10									
4303730977	10130	40S 24E 05	DSCR	P	OW	28	93	0	0
SAHZIE 1									
4303731472	11032	42S 24E 05	DSCR	P	OW	28	1,025	476	0
ANASAZI 1									
4303731478	11042	42S 24E 05	DSCR	P	OW	28	1,308	1,349	0
CAJON MESA 8D-1									
4303731497	11074	40S 25E 08	DSCR	P	OW	27	245	355	61
MONUMENT 8N-2									
4303731509	11087	40S 25E 08	DSCR	P	OW	28	239	496	0
RUNWAY 10G-1									
4303731515	11105	40S 25E 10	DSCR	S	OW	28	1,412	1,613	432
RUNWAY 10E-2									
4303731550	11128	40S 25E 10	DSCR	S	GW	27	279	917	0
MONUMENT 17E-2									
4303731547	11139	40S 25E 17	DSCR	S	OW	26	157	548	0
LONE MOUNTAIN CREEK 12F-1									
4303731545	11148	42S 24E 12	DSCR	P	OW	22	149	533	12
RUNWAY 10C-5A									
4303731597	11152	40S 25E 10	DSCR	P	OW	24	221	899	40
TOTALS							6477	8051	2841

COMMENTS: \_\_\_\_\_

I hereby certify that this report is true and complete to the best of my knowledge.

Date: April 13, 2001

Signature

Susan M. Herrera  
 Susan M. Herrera

**RECEIVED**

Telephone Number

(505) 326-0550

APR 17 2001

DIVISION OF  
 OIL, GAS AND MINING



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS

Susan Herrera  
RIM SOUTHWEST CORPORATION  
C/O HOLCOMB OIL AND GAS, INC.  
PO BOX 2058  
FARMINGTON, NM 87499-2058

UTAH ACCOUNT NUMBER:

N9290

REPORT PERIOD (MONTH/YEAR):

02/2001

AMENDED REPORT ☐

(Highlight Changes)

WELL NAME			Producing Zone	Well Status	Well Type	Days Oper	Production Volumes		
API Number	Entity	Location					OIL (BBL)	GAS (MCF)	WATER (BBL)
✓ BLUE HOGAN 1J-1									
4303731562	11161	42S 23E 01	DSCR	P	OW	27	800	778	36
✓ ANASAZI 5L-3									
4303731572	11207	42S 24E 05	DSCR	P	OW	28	1,187	1,284	0
✓ BROWN HOGAN 1A-2									
4303731573	11215	42S 23E 01	DSCR	P	OW	28	297	504	0
✓ STERLING 36L-1									
4303731595	11224	41S 23E 36	DSCR	S	OW	0	0	0	0
✓ MULE 31K (N)									
4303731617	11326	41S 24E 31	DSCR	P	OW	28	308	348	73
✓ NORTH HERON 35C									
4303731616	11479	41S 25E 35	DSCR	S	OW	0	0	0	0
✓ BURRO 31I									
4303731708	11496	41S 24E 31	DSCR	P	OW	28	489	0	0
✓ JACK 31G									
4303731709	11497	41S 24E 31	DSCR	S	OW	0	0	0	0
✓ MULE 31M									
4303731710	11498	41S 24E 31	DSCR	P	OW	28	1,074	333	120
✓ BIG SKY 6E (6L) 1									
4303731714	11722	42S 25E 06	DSCR	P	OW	26	262	551	0
✓ CLAY HILL CANYON 32D									
4303731741	11734	41S 25E 32	DSCR	TA	NA	0	0	0	0
✓ ANASAZI 6H-1									
4303731744	11773	42S 24E 06	DSCR	P	OW	28	205	303	0

TOTALS

4622

4101

229

COMMENTS:

I hereby certify that this report is true and complete to the best of my knowledge.

Date: April 13, 2001

Signature

*Susan M. Herrera*  
Susan M. Herrera

RECEIVED

Telephone Number

(505) 326-0550

APR 17 2001

DIVISION OF  
OIL, GAS AND MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <u>SEE ATTACHED</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: <u>SEE ATTACHED</u>
2. NAME OF OPERATOR: RIM Southwest Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo
3. ADDRESS OF OPERATOR: P.O. Box 145 CITY Farmington STATE NM ZIP 87499		7. UNIT or CA AGREEMENT NAME: <u>SEE ATTACHED</u>
PHONE NUMBER: (505) 327-5531		8. WELL NAME and NUMBER: <u>SEE ATTACHED</u>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <u>SEE ATTACHED</u>		9. API NUMBER: <u>SEE ATTACH</u>
COUNTY: <u>San Juan</u>		10. FIELD AND POOL, OR WILDCAT: Greater Aneth
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <u>                    </u>		STATE: <u>UTAH</u>

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Corporate Name Change</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Corporate Name Change from Harken Southwest Corporation to RIM Southwest Corporation, effective December 1, 2000 for reporting requirements.

RECEIVED

APR 23 2001

DIVISION OF  
OIL, GAS AND MINING

NAME (PLEASE PRINT) <u>W. J. Holcomb</u>	TITLE <u>Vice-President</u>
SIGNATURE <u>[Signature]</u>	DATE <u>4/23/2001</u>

(This space for State use only)

## OPERATOR CHANGE WORKSHEET

## ROUTING

1. GLH
2. CDW
3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

**X Operator Name Change**

Merger

The operator of the well(s) listed below has changed, effective:

**12/1/2000****FROM: (Old Operator):**

N9290-Harken Southwest Corporation

5 Inverness Drive, East

Denver, CO 80112

Phone: (303) 799-9828

**TO: ( New Operator):**

N1715-Rim Southwest Corporation

PO Box 145

Farmington, NM 87499

Phone: (505) 327-5531

CA No.

Unit:

**WELL(S)**

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
NAVAJO TRIBAL 32-26	26	400S	220E	4303731060	9990	Indian	OW	S
NAVAJO TRIBAL 14-10	10	400S	240E	4303730977	10130	Indian	OW	P
NAVAJO TRIBAL 23-13	13	400S	240E	4303730971	9420	Indian	OW	P
CAJON MESA 8D-1	08	400S	250E	4303731497	11074	Indian	OW	P
MONUMENT 8N-2	08	400S	250E	4303731509	11087	Indian	OW	P
RUNWAY 10G-1	10	400S	250E	4303731515	11105	Indian	OW	P
RUNWAY 10E-2	10	400S	250E	4303731550	11128	Indian	GW	P
<b>RUNWAY 10C-5A</b>	<b>10</b>	<b>400S</b>	<b>250E</b>	<b>4303731597</b>	11152	Indian	OW	P
MONUMENT 17E-2	17	400S	250E	4303731547	11139	Indian	OW	P
STERLING 36L-1	36	410S	230E	4303731595	11224	Indian	OW	S
MULE 31K (N)	31	410S	240E	4303731617	11326	Indian	OW	P
BURRO 31I	31	410S	240E	4303731708	11496	Indian	OW	P
MULE 31M	31	410S	240E	4303731710	11498	Indian	OW	P
JACK 31G	31	410S	240E	4303731709	11497	Indian	OW	S
CLAY HILL CANYON 32D	32	410S	250E	4303731741	11734	Indian	OW	TA
NORTH HERON 35C	35	410S	250E	4303731616	11479	Indian	OW	S
BLUE HOGAN 1J-1	01	420S	230E	4303731562	11161	Indian	OW	P
BROWN HOGAN 1A-2	01	420S	230E	4303731573	11215	Indian	OW	P
NAVAJO TRIBAL 41-2	02	420S	240E	4303731041	9437	Indian	OW	P
SAHGZIE 1	05	420S	240E	4303731472	11032	Indian	OW	P
ANASAZI 1	05	420S	240E	4303731478	11042	Indian	OW	P
ANASAZI 5L-3	05	420S	240E	4303731572	11207	Indian	OW	P
ANASAZI 6H-1	06	420S	240E	4303731744	11773	Indian	OW	P
LONE MOUNTAIN CREEK 12F-1	12	420S	240E	4303731545	11148	Indian	OW	P
BIG SKY 6E (6L) 1	06	420S	250E	4303731714	11722	Indian	OW	P

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/27/20012. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/27/20013. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/30/2003

4. Is the new operator registered in the State of Utah: YES Business Number: 794466-0143
5. If **NO**, the operator was contacted on: \_\_\_\_\_
6. (R649-9-2)Waste Management Plan has been received on: 8/13/2003

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: not given

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 8/26/2003
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 8/26/2003
3. Bond information entered in RBDMS on: n/a
4. Fee wells attached to bond in RBDMS on: n/a

**STATE WELL(S) BOND VERIFICATION:**

1. State well(s) covered by Bond Number: n/a

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: n/a

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: RLB0001937

**FEE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/a
2. The **FORMER** operator has requested a release of liability from their bond on: n/a  
The Division sent response by letter on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS:**

Because this was a merger, all LA and PA wells belong to Rim Southwest also. However, they are still on our computer as Harken Southwest because no list was provided to move them.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. <b>See Attached</b>
2. Name of Operator <b>RIM SOUTHWEST CORPORATION</b>	6. If Indian, Allottee or Tribe Name <b>Navajo Nation</b>
3. Address and Telephone No. <b>P. O. Box 145, Farmington, NM 87499 (505)327-5531</b>	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)	8. Well Name and No.
	9. API Well No.
	10. Field and Pool, or Exploratory Area
	11. County or Parish, State <b>San Juan County Utah</b>

12. **CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other <b>Vent/Flare Gas</b>	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Please be advised that RIM Southwest Corporation is requesting approval to vent gas until September 14, 2001. After September 14, we request permission to flare the gas until the Aneth Plant is back on line.

Attachment

cc: State of Utah  
Navajo Nation-Minerals  
Navajo Nation EPA - Air Quality  
BIA - Gallup, NM

Accepted by the  
Utah Division of  
Oil, Gas and Mining

Date: 9/17/01  
By: [Signature]

Exp. Oct 15, 2001

Federal Approval Of This  
Action Is Necessary

COPY SENT TO OPERATOR  
Date: 9-17-01  
Initials: CHD

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2001  
DIVISION OF  
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct

Signed [Signature]

Title **W. J. Holcomb, Vice President** Date **8/29/01**

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_ Date \_\_\_\_\_

RIM SOUTHWEST CORPORATION

			ESTIMATED GAS
			VENTED
LEASE NUMBER	WELL NAME	SEC-TWN-RNG	MCF/DAY
1420603373	Big Sky 6E (6L)	06-42S-25E	19
NOC 14205297			
(NMNM 5756)	Monument 8N-2	08-40S-25E	18
(NMNM 5757)	Cajon Mesa 8D-1	08-40S-25E	0
NOG 8308-1033	Navajo Tribal 23-13	13-40S-24E	23
	Navajo Tribal 14-10	10-40S-24E	1
	Navajo Tribal 41-2	02-42S-24E	8
	Navajo Tribal 32-26	26-40S-22E	8
NOG 8707-1162	Sahgzie #1	05-42S-24E	16
	Anasazi #1	05-42S-24E	67
NOG 8707-1170	Runway 10G-1	10-40S-25E	SI
	Runway 10C-5A	10-40S-25E	SI
NOG 8707-1190	Runway 10E-2	10-40S-25E	17
NOG 8707-1191	Monument 17E-2	17-40S-25e	0
NOG 8707-1206	Blue Hogan 1J-1	01-42S-23E	27
	Brown Hogan 1A-2	01-42S-23E	18
NOG 8707-12321	Burro 31-1	31-41S-24E	1
	Jack 31G	31-41S-24E	SI
	Mule 31K (N)	31-41S-24E	7
	Mule 31M	31-41S-24E	24
		<b>TOTAL AVERAGE</b>	<b>254</b>

- 43-037-31714

- 43-037-31509

- 43-037-31497

- 43-037-30971

- 43-037-30977

- 43-037-31041

- 43-037-31060

- 43-037-31472

- 43-037-31478

- 43-037-31515

- 43-037-31597

- 43-037-31550

- 43-037-31547

- 43-037-31562

- 43-037-31573

- 43-037-31708

- 43-037-31709

- 43-037-31617

- 43-037-31710



2030 AFTON PLACE  
FARMINGTON, N.M. 87401  
(505) 325-6622

ANALYSIS NO. HSC80013  
CUST. NO. 33500- 10095

### WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	MULE 31M	PRESSURE	25 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	76 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	6/30/98
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E412018	FOREMAN/ENGR.	STEVEN J. MANSUR

### REMARKS

### ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.332	0.0000	0.00	0.0129
CO2	0.112	0.0000	0.00	0.0017
METHANE	57.114	0.0000	578.17	0.3164
ETHANE	19.739	5.2802	350.11	0.2049
PROPANE	11.863	3.2694	299.17	0.1806
I-BUTANE	1.498	0.4900	48.83	0.0301
N-BUTANE	4.080	1.2864	133.41	0.0819
I-PENTANE	1.011	0.3699	40.54	0.0252
N-PENTANE	1.215	0.4401	48.82	0.0303
HEXANE PLUS	2.036	0.8883	104.67	0.0655
TOTAL	100.000	12.0243	1,603.72	0.9494

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0067
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,614.5
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,586.4
REAL SPECIFIC GRAVITY		0.9559

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,605.7
DRY BTU @ 14.696	1,610.7
DRY BTU @ 14.730	1,614.5
DRY BTU @ 15.025	1,646.8

CYLINDER #	SJ99
CYLINDER PRESSURE	10 PSIG
DATE RUN	7/1/98
ANALYSIS RUN BY	DAVE MARTIN



2030 AFTON PLACE  
FARMINGTON, N.M. 87401  
(505) 325-6622

ANALYSIS NO. HSC80012  
CUST. NO. 33500- 10015

### WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	MULE 31K	PRESSURE	24 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	84 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	6/30/98
FORMATION	DESERT CREEK	SAMPLED BY	FGM
CUST.STN.NO.	202E340052	FOREMAN/ENGR.	STEVEN J. MANSUR

### REMARKS

### ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.925	0.0000	0.00	0.0186
CO2	0.133	0.0000	0.00	0.0020
METHANE	63.617	0.0000	643.99	0.3524
ETHANE	16.771	4.4862	297.47	0.1741
PROPANE	9.543	2.6301	240.66	0.1453
I-BUTANE	1.205	0.3942	39.28	0.0242
N-BUTANE	3.315	1.0452	108.39	0.0665
I-PENTANE	0.794	0.2905	31.84	0.0198
N-PENTANE	0.944	0.3419	37.93	0.0235
HEXANE PLUS	1.753	0.7648	90.12	0.0564
TOTAL	100.000	9.9529	1,489.68	0.8829

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0056
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,498.0
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,472.0
REAL SPECIFIC GRAVITY		0.8877

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,489.9
DRY BTU @ 14.696	1,494.6
DRY BTU @ 14.730	1,498.0
DRY BTU @ 15.025	1,528.0

CYLINDER #	048A
CYLINDER PRESSURE	24 PSIG
DATE RUN	7/1/98
ANALYSIS RUN BY	CHELLE DURBIN





2030 AFTON PLACE  
FARMINGTON, N.M. 87401  
(505) 325-6622

ANALYSIS NO. HSC80009  
CUST. NO. 33500- 10080

### WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	JACK 31G	PRESSURE	28 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	76 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	6/30/98
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E410005	FOREMAN/ENGR.	STEVEN J. MANSUR

### REMARKS

### ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.975	0.0000	0.00	0.0191
CO2	0.062	0.0000	0.00	0.0009
METHANE	70.488	0.0000	713.55	0.3904
ETHANE	13.388	3.5813	237.46	0.1390
PROPANE	7.057	1.9449	177.97	0.1075
I-BUTANE	1.012	0.3310	32.99	0.0203
N-BUTANE	2.613	0.8239	85.44	0.0524
I-PENTANE	0.750	0.2744	30.08	0.0187
N-PENTANE	0.920	0.3332	36.97	0.0229
HEXANE PLUS	1.735	0.7570	89.20	0.0558
TOTAL	100.000	8.0458	1,403.66	0.8271

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0049
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,410.5
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,386.0
REAL SPECIFIC GRAVITY		0.8311

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,402.9
DRY BTU @ 14.696	1,407.3
DRY BTU @ 14.730	1,410.5
DRY BTU @ 15.025	1,438.8

CYLINDER #	004
CYLINDER PRESSURE	12 PSIG
DATE RUN	7/1/98
ANALYSIS RUN BY	DAVE MARTIN



2030 AFTON PLACE  
FARMINGTON, N.M. 87401  
(505) 325-6622

ANALYSIS NO. HSC00018  
CUST. NO. 33500- 10035

### WELL/LEASE INFORMATION

CUSTOMER NAME HARKEN SOUTHWEST CORP.  
WELL NAME BIG SKY 6E  
COUNTY/ STATE SAN JUAN UT  
LOCATION ANETH  
FIELD  
FORMATION  
CUST.STN.NO. 202E430640

SOURCE N/A  
PRESSURE 17 PSIG  
SAMPLE TEMP 21 DEG.F  
WELL FLOWING Y  
DATE SAMPLED 12/23/00  
SAMPLED BY FGM  
FOREMAN/ENGR. STEVEN J. MANSUR

### REMARKS

### ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.658	0.0000	0.00	0.0160
CO2	0.037	0.0000	0.00	0.0006
METHANE	66.226	0.0000	670.41	0.3668
ETHANE	17.222	4.6069	305.47	0.1788
PROPANE	9.526	2.6254	240.24	0.1450
I-BUTANE	1.012	0.3310	32.99	0.0203
N-BUTANE	2.724	0.8589	89.07	0.0547
I-PENTANE	0.496	0.1815	19.89	0.0124
N-PENTANE	0.553	0.2003	22.22	0.0138
HEXANE PLUS	0.546	0.2382	28.07	0.0176
TOTAL	100.000	9.0422	1,408.36	0.8260

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z) 1.0048  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z) 1,415.4  
BTU/CU.FT (WET) CORRECTED FOR (1/Z) 1,390.8  
REAL SPECIFIC GRAVITY 0.8302

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650 1,407.7  
DRY BTU @ 14.696 1,412.2  
DRY BTU @ 14.730 1,415.4  
DRY BTU @ 15.025 1,443.8

CYLINDER # 007  
CYLINDER PRESSURE 17 PSIG  
DATE RUN 12/28/00  
ANALYSIS RUN BY GINA HANON

## CQM, INC. ON-SITE GAS ANALYSIS

UNIT 2

1427 W. AZTEC BLVD. #3

AZTEC, NM 87410

505-333-2003

Source: ELKHORN FIELD SERVICES Report Date: 06/19/2001 13:48:14  
 Station #: 78-153 Sample Date: 06/13/2001  
 Station Name: BLUE/BROWN HOGAN Flowing Pressure: 0 psig  
 Field: RIM SOUTHWEST Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\H2S 1.MET  
 File: c:\mti\ezchrom\200\chrom\78\_15306.2

## Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	3.577	0.000	0.035	
Methane	55.640	563.264	0.308	
CO2	0.033	0.000	0.001	
Ethane	17.739	314.636	0.184	4.744
H2S (APPROX)	0.000	0.000	0.000	
Propane	11.983	302.202	0.182	3.302
i-Butane	1.627	53.031	0.033	0.532
n-Butane	4.370	142.892	0.088	1.378
i-Pentane	1.194	47.881	0.030	0.437
n-Pentane	1.465	58.866	0.036	0.531
Hexanes	1.955	93.193	0.058	0.804
Heptanes	0.373	20.572	0.013	0.172
Octanes	0.044	2.756	0.002	0.023
Nonanes	0.000	0.000	0.000	

Ideal Total 100.000 1599.293 0.969 11.922  
 Unnormalized Total 111.244

Gross BTU/Real Cu. Ft.  
 (@ 60 deg F, 14.730)

Dry = 1610.156

Sat. = 1583.743

Actual = 1610.156

( 0.000 lbs. water/MMCF)

## Gasoline Content

Propane GPM = 3.302

Butane GPM = 1.910

Gasoline GPM = 1.966

26# Gasoline GPM = 3.344

Total GPM = 11.922

Real Relative Density Calculated = 0.9755

On-Site Relative Density = 0.0000

Gas Compressibility = 0.9933



2030 AFTON PLACE  
FARMINGTON, N.M. 87401  
(505) 325-6622

ANALYSIS NO. HSC00010  
CUST. NO. 33500- 10090

### WELL/LEASE INFORMATION

CUSTOMER NAME HARKEN SOUTHWEST CORP.  
WELL NAME MONUMENT 17-E-2  
COUNTY/ STATE SAN JUAN UT  
LOCATION ANETH  
FIELD  
FORMATION  
CUST.STN.NO. 202E311659

SOURCE N/A  
PRESSURE 20 PSIG  
SAMPLE TEMP 47 DEG.F  
WELL FLOWING Y  
DATE SAMPLED 12/21/00  
SAMPLED BY FGM  
FOREMAN/ENGR. STEVEN J. MANSUR

### REMARKS

### ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.958	0.0000	0.00	0.0093
CO2	0.071	0.0000	0.00	0.0011
METHANE	67.968	0.0000	688.04	0.3765
ETHANE	14.933	3.9946	264.87	0.1550
PROPANE	8.159	2.2486	205.76	0.1242
I-BUTANE	0.965	0.3157	31.45	0.0194
N-BUTANE	2.976	0.9383	97.31	0.0597
I-PENTANE	0.754	0.2759	30.24	0.0188
N-PENTANE	1.118	0.4049	44.92	0.0279
HEXANE PLUS	2.098	0.9154	107.86	0.0675
TOTAL	100.000	9.0934	1,470.45	0.8593

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z) 1.0054  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z) 1,479.5  
BTU/CU.FT (WET) CORRECTED FOR (1/Z) 1,453.8  
REAL SPECIFIC GRAVITY 0.8647

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650 1,471.5  
DRY BTU @ 14.696 1,476.1  
DRY BTU @ 14.730 1,479.5  
DRY BTU @ 15.025 1,509.2

CYLINDER # 005  
CYLINDER PRESSURE 22 PSIG  
DATE RUN 12/22/00  
ANALYSIS RUN BY AMY JUSTICE



2030 AFTON PLACE  
FARMINGTON, N.M. 87401  
(505) 325-6622

ANALYSIS NO. HSC00014  
CUST. NO. 33500- 10120

### WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	RUNAWAY 10E2	PRESSURE	21 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	60 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	12/21/00
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E311617	FOREMAN/ENGR.	STEVEN J. MANSUR

### REMARKS

### ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.534	0.0000	0.00	0.0052
CO2	0.053	0.0000	0.00	0.0008
METHANE	50.326	0.0000	509.45	0.2788
ETHANE	23.092	6.1771	409.58	0.2397
PROPANE	14.269	3.9325	359.85	0.2173
I-BUTANE	1.588	0.5194	51.76	0.0319
N-BUTANE	4.428	1.3961	144.79	0.0889
I-PENTANE	0.988	0.3615	39.62	0.0246
N-PENTANE	1.348	0.4882	54.17	0.0336
HEXANE PLUS	3.374	1.4721	173.46	0.1086
TOTAL	100.000	14.3471	1,742.68	1.0292

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0082
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,758.8
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,728.2
REAL SPECIFIC GRAVITY		1.0390

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,749.3
DRY BTU @ 14.696	1,754.8
DRY BTU @ 14.730	1,758.8
DRY BTU @ 15.025	1,794.1

CYLINDER #	AZT035
CYLINDER PRESSURE	26 PSIG
DATE RUN	12/22/00
ANALYSIS RUN BY	AMY JUSTICE



2030 AFTON PLACE  
FARMINGTON, N.M. 87401  
(505) 325-6622

ANALYSIS NO. HSC00013  
CUST. NO. 33500- 10115

### WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	RUNAWAY 10C 5-A	PRESSURE	9 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	69 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	12/21/00
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E308719	FOREMAN/ENGR.	STEVEN J. MANSUR

### REMARKS

### ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.794	0.0000	0.00	0.0077
CO2	0.109	0.0000	0.00	0.0017
METHANE	56.637	0.0000	573.34	0.3137
ETHANE	18.737	5.0121	332.34	0.1945
PROPANE	11.185	3.0826	282.07	0.1703
I-BUTANE	1.296	0.4239	42.24	0.0260
N-BUTANE	3.814	1.2026	124.71	0.0765
I-PENTANE	1.035	0.3787	41.51	0.0258
N-PENTANE	1.558	0.5643	62.60	0.0388
HEXANE PLUS	4.835	2.1095	248.57	0.1556
TOTAL	100.000	12.7737	1,707.38	1.0106

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0080
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,723.7
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,693.7
REAL SPECIFIC GRAVITY		1.0203

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,714.3
DRY BTU @ 14.696	1,719.7
DRY BTU @ 14.730	1,723.7
DRY BTU @ 15.025	1,758.2

CYLINDER #	A002
CYLINDER PRESSURE	14 PSIG
DATE RUN	12/22/00
ANALYSIS RUN BY	AMY JUSTICE

CQM, INC.  
1427 W. AZTEC, BLVD. #3 AZTEC, NM 87410  
505-333-2003

Source: ELKHORN FIELD SERVICE	Report Date: 06/19/2001 12:58:11
Station #: 78-138	Sample Date: 06/13/2001
Station Name: RUNWAY 10-G-1	Flowing Pressure: 0 psig
Field: RIM SOUTHWEST	Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\sour2.met  
File: c:\mti\ezchrom\200\chrom\78\_13806.1

### Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	1.082	0.000	0.010	
Methane	59.728	604.648	0.331	
CO2	0.074	0.000	0.001	
Ethane	18.511	328.328	0.192	4.951
H2S (approx)	0.000	0.000	0.000	
Propane	12.402	312.769	0.189	3.417
i-Butane	1.191	38.820	0.024	0.390
n-Butane	3.539	115.720	0.071	1.116
i-Pentane	0.926	37.134	0.023	0.335
n-Pentane	1.239	49.785	0.031	0.453
Hexanes	0.834	39.756	0.025	0.343
Heptanes	0.424	23.385	0.015	0.196
Octanes	0.050	3.132	0.002	0.026

Ideal Total	100.000	1553.477	0.914	11.227
Unnormalized Total	92.627			

Gross BTU/Real Cu. Ft. (@ 60 deg F, 14.730)	Gasoline Content
Dry = 1563.024	Propane GPM = 3.417
Sat. = 1537.392	Butane GPM = 1.505
Actual = 1563.024	Gasoline GPM = 1.353
( 0.000 lbs. water/MMCF)	26# Gasoline GPM = 2.469
	Total GPM = 11.227

Real Relative Density Calculated = 0.9190  
On-Site Relative Density = 0.0000

Gas Compressibility = 0.9939

## CQM, I. ON-SITE GAS ANALYSIS

1427 W. AZTEC BLVD. #3

AZTEC, NM 87410

505-333-2003

T 2

Source: ELKHORN FIELD SERVICES Report Date: 06/19/2001 13:53:04  
 Station #: 78-148 Sample Date: 06/13/2001  
 Station Name: SAGEEZIE/ANASAZI Flowing Pressure: 0 psig  
 Field: RIM SOUTHWEST Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\H2S\_1.MET  
 File: c:\mti\ezchrom\200\chrom\78\_14806.1

## Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	0.664	0.000	0.006	
Methane	44.440	449.882	0.246	
CO2	0.068	0.000	0.001	
Ethane	23.771	421.625	0.247	6.358
H2S (APPROX)	0.000	0.000	0.000	
Propane	17.469	440.554	0.266	4.814
i-Butane	2.367	77.151	0.048	0.774
n-Butane	5.635	184.256	0.113	1.777
i-Pentane	1.485	59.551	0.037	0.543
n-Pentane	1.729	69.474	0.043	0.626
Hexanes	1.947	92.812	0.058	0.801
Heptanes	0.378	20.848	0.013	0.174
Octanes	0.047	2.944	0.002	0.024
Nonanes	0.000	0.000	0.000	

Ideal Total	100.000	1819.096	1.080	15.891
Unnormalized Total	113.650			

Gross BTU/Real Cu. Ft.  
 (@ 60 deg F, 14.730)

Dry = 1835.446

Sat. = 1805.263

Actual = 1835.446

( 0.000 lbs. water/MMCF)

## Gasoline Content

Propane GPM = 4.814

Butane GPM = 2.551

Gasoline GPM = 2.169

26# Gasoline GPM = 3.945

Total GPM = 15.891

Real Relative Density Calculated = 1.0892

On-Site Relative Density = 0.0000

Gas Compressibility = 0.9911





2030 AFTON PLACE  
FARMINGTON, N.M. 87401  
(505) 325-6622

ANALYSIS NO. HSC00012  
CUST. NO. 33500- 10105

### WELL/LEASE INFORMATION

CUSTOMER NAME HARKEN SOUTHWEST CORP.  
WELL NAME NAVAJO TRIBAL 32-26  
COUNTY/ STATE SAN JUAN UT  
LOCATION ANETH  
FIELD  
FORMATION  
CUST.STN.NO. 202A-52531

SOURCE N/A  
PRESSURE 17 PSIG  
SAMPLE TEMP 30 DEG.F  
WELL FLOWING Y  
DATE SAMPLED 12/21/00  
SAMPLED BY FGM  
FOREMAN/ENGR. STEVEN J. MANSUR

### REMARKS

### ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.934	0.0000	0.00	0.0090
CO2	0.050	0.0000	0.00	0.0008
METHANE	71.878	0.0000	727.62	0.3981
ETHANE	15.057	4.0277	267.07	0.1563
PROPANE	6.531	1.7999	164.71	0.0994
I-BUTANE	0.770	0.2519	25.10	0.0155
N-BUTANE	1.958	0.6174	64.02	0.0393
I-PENTANE	0.510	0.1866	20.45	0.0127
N-PENTANE	0.663	0.2401	26.64	0.0165
HEXANE PLUS	1.649	0.7195	84.78	0.0531
TOTAL	100.000	7.8431	1,380.39	0.8007

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z) 1.0046  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z) 1,387.6  
BTU/CU.FT (WET) CORRECTED FOR (1/Z) 1,363.5  
REAL SPECIFIC GRAVITY 0.8049

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650 1,380.1  
DRY BTU @ 14.696 1,384.4  
DRY BTU @ 14.730 1,387.6  
DRY BTU @ 15.025 1,415.4

CYLINDER # KFL148  
CYLINDER PRESSURE 23 PSIG  
DATE RUN 12/22/00  
ANALYSIS RUN BY AMY JUSTICE

CQM, INC. ON-SITE GAS ANALYSIS

UNIT 2

1427 W. AZTEC BLVD. #3

AZTEC, NM 87410

505-333-2003

Source: ELKHORN FIELD SERVICES  
 Station #: 78-145  
 Station Name: NT41-2  
 Field: RIM SOUTHWEST

Report Date: 06/19/2001 13:59:32  
 Sample Date: 06/13/2001  
 Flowing Pressure: 0 psig  
 Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\H2S\_1.MET

File: c:\mti\ezchrom\200\chrom\78\_14506.1

## Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	1.152	0.000	0.011	
Methane	56.788	574.886	0.315	
CO2	0.085	0.000	0.001	
Ethane	19.719	349.755	0.205	5.274
H2S (APPROX)	0.000	0.000	0.000	
Propane	12.656	319.174	0.193	3.487
i-Butane	1.519	49.511	0.030	0.497
n-Butane	4.167	136.255	0.084	1.314
i-Pentane	1.029	41.265	0.026	0.377
n-Pentane	1.297	52.116	0.032	0.470
Hexanes	1.366	65.116	0.041	0.562
Heptanes	0.196	10.810	0.007	0.090
Octanes	0.026	1.628	0.001	0.013
Nonanes	0.000	0.000	0.000	

Ideal Total 100.000 1600.514 0.945 12.084

Unnormalized Total 110.907

Gross BTU/Real Cu. Ft.

(@ 60 deg F, 14.730)

Dry = 1611.115

Sat. = 1584.681

Actual = 1611.115

( 0.000 lbs. water/MMCF)

Gasoline Content

Propane GPM = 3.487

Butane GPM = 1.811

Gasoline GPM = 1.512

26# Gasoline GPM = 2.826

Total GPM = 12.084

Real Relative Density Calculated = 0.9508

On-Site Relative Density = 0.0000

Gas Compressibility = 0.9934

COM, IN-ON-SITE GAS ANALYSIS

L 2

1427 W. AZTEC BLVD. #3

AZTEC, NM 87410

505-333-2003

Source: ELKHORN FIELD SERVICE Report Date: 06/19/2001 14:32:41  
 Station #: 78-146 Sample Date: 06/14/2001  
 Station Name: NT #23-13 Flowing Pressure: 0 psig  
 Field: RIM SOUTHWEST Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\H2S 1.MET  
 File: c:\mti\ezchrom\200\chrom\78\_14606.1

## Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	1.159	0.000	0.011	
Methane	56.655	573.539	0.314	
CO2	0.136	0.000	0.002	
Ethane	19.548	346.722	0.203	5.228
H2S (APPROX)	0.000	0.000	0.000	
Propane	12.674	319.628	0.193	3.492
i-Butane	1.537	50.097	0.031	0.503
n-Butane	4.064	132.887	0.082	1.281
i-Pentane	0.965	38.698	0.024	0.353
n-Pentane	1.172	47.093	0.029	0.424
Hexanes	1.532	73.029	0.046	0.630
Heptanes	0.424	23.385	0.015	0.196
Octanes	0.134	8.393	0.005	0.069
Nonanes	0.000	0.000	0.000	

Ideal Total 100.000 1613.471 0.954 12.177  
 Unnormalized Total 107.575

Gross BTU/Real Cu. Ft.  
 (@ 60 deg F, 14.730)

Dry = 1624.438

Sat. = 1597.782

Actual = 1624.438

( 0.000 lbs. water/MMCF)

Gasoline Content

Propane GPM = 3.492

Butane GPM = 1.784

Gasoline GPM = 1.672

26# Gasoline GPM = 2.953

Total GPM = 12.177

Real Relative Density Calculated = 0.9603

On-Site Relative Density = 0.0000

Gas Compressibility = 0.9932



2030 AFTON PLACE  
FARMINGTON, N.M. 87401  
(505) 325-6622

ANALYSIS NO. HSC00009  
CUST. NO. 33500- 10085

### WELL/LEASE INFORMATION

CUSTOMER NAME HARKEN SOUTHWEST CORP.  
WELL NAME MONUMENT 8N2  
COUNTY/ STATE SAN JUAN UT  
LOCATION ANETH  
FIELD  
FORMATION  
CUST.STN.NO. 202E311589

SOURCE N/A  
PRESSURE 12 PSIG  
SAMPLE TEMP 55 DEG.F  
WELL FLOWING Y  
DATE SAMPLED 12/21/00  
SAMPLED BY FGM  
FOREMAN/ENGR. STEVEN J. MANSUR

### REMARKS

### ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.139	0.0000	0.00	0.0110
CO2	0.064	0.0000	0.00	0.0010
METHANE	60.307	0.0000	610.49	0.3341
ETHANE	15.875	4.2466	281.57	0.1648
PROPANE	11.057	3.0473	278.85	0.1684
I-BUTANE	1.628	0.5325	53.06	0.0327
N-BUTANE	5.194	1.6377	169.83	0.1042
I-PENTANE	1.202	0.4398	48.20	0.0299
N-PENTANE	1.620	0.5868	65.09	0.0404
HEXANE PLUS	1.914	0.8351	98.40	0.0616
TOTAL	100.000	11.3257	1,605.49	0.9480

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z) 1.0067  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z) 1,617.3  
BTU/CU.FT (WET) CORRECTED FOR (1/Z) 1,589.2  
REAL SPECIFIC GRAVITY 0.9551

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650 1,608.5  
DRY BTU @ 14.696 1,613.6  
DRY BTU @ 14.730 1,617.3  
DRY BTU @ 15.025 1,649.7

CYLINDER # 050  
CYLINDER PRESSURE 15 PSIG  
DATE RUN 12/22/00  
ANALYSIS RUN BY AMY JUSTICE



2030 AFTON PLACE  
FARMINGTON, N.M. 87401  
(505) 325-6622

ANALYSIS NO. HSC00010  
CUST. NO. 33500- 10090

### WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	MONUMENT 17-E-2	PRESSURE	20 PSIG
COUNTY/STATE	SAN JUAN UT	SAMPLE TEMP	47 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	12/21/00
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E311659	FOREMAN/ENGR.	STEVEN J. MANSUR

### REMARKS

### ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.958	0.0000	0.00	0.0093
CO2	0.071	0.0000	0.00	0.0011
METHANE	67.968	0.0000	688.04	0.3765
ETHANE	14.933	3.9946	264.87	0.1550
PROPANE	8.159	2.2486	205.76	0.1242
I-BUTANE	0.965	0.3157	31.45	0.0194
N-BUTANE	2.976	0.9383	97.31	0.0597
I-PENTANE	0.754	0.2759	30.24	0.0188
N-PENTANE	1.118	0.4049	44.92	0.0279
HEXANE PLUS	2.098	0.9154	107.86	0.0675
TOTAL	100.000	9.0934	1,470.45	0.8593

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0054
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,479.5
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,453.8
REAL SPECIFIC GRAVITY		0.8647

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,471.5
DRY BTU @ 14.696	1,476.1
DRY BTU @ 14.730	1,479.5
DRY BTU @ 15.025	1,509.2

CYLINDER #	005
CYLINDER PRESSURE	22 PSIG
DATE RUN	12/22/00
ANALYSIS RUN BY	AMY JUSTICE



2030 AFTON PLACE  
FARMINGTON, N.M. 87401  
(505) 325-6622

ANALYSIS NO. HSC00008  
CUST. NO. 33500- 10000

### WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	CAJON 8D1	PRESSURE	12 PSIG
COUNTY/STATE	SAN JUAN UT	SAMPLE TEMP	42 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	12/21/00
FORMATION	ISMAY	SAMPLED BY	FGM
CUST.STN.NO.	202E311625	FOREMAN/ENGR.	STEVEN J. MANSUR

### REMARKS

### ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.802	0.0000	0.00	0.0078
CO2	0.070	0.0000	0.00	0.0011
METHANE	58.781	0.0000	595.04	0.3256
ETHANE	18.008	4.8171	319.41	0.1870
PROPANE	12.630	3.4808	318.52	0.1923
I-BUTANE	1.567	0.5126	51.07	0.0314
N-BUTANE	4.747	1.4967	155.22	0.0953
I-PENTANE	0.925	0.3385	37.09	0.0230
N-PENTANE	1.207	0.4372	48.50	0.0301
HEXANE PLUS	1.263	0.5510	64.93	0.0406
TOTAL	100.000	11.6339	1,589.78	0.9341

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0065
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,600.8
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,573.0
REAL SPECIFIC GRAVITY		0.9408

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,592.1
DRY BTU @ 14.696	1,597.1
DRY BTU @ 14.730	1,600.8
DRY BTU @ 15.025	1,632.9

CYLINDER #	AZT047
CYLINDER PRESSURE	15 PSIG
DATE RUN	12/26/00
ANALYSIS RUN BY	AMY JUSTICE

## CQM, INC. ON-SITE GAS ANALYSIS

W 2

1427 W. AZTEC BLVD. #3

AZTEC, NM 87410

505-333-2003

Source: ELKHORN FIELD SERVICE Report Date: 06/19/2001 14:36:40  
 Station #: 78-144 Sample Date: 06/14/2001  
 Station Name: MON/CAJON MESA Flowing Pressure: 0 psig  
 Field: RIM SOUTHWEST Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\H2S\_1.MET

File: c:\mti\ezchrom\200\chrom\78\_14406.1

## Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	0.989	0.000	0.010	
Methane	63.867	646.549	0.354	
CO2	0.044	0.000	0.001	
Ethane	15.724	278.896	0.163	4.205
H2S (APPROX)	0.000	0.000	0.000	
Propane	9.810	247.400	0.149	2.703
i-Butane	1.181	38.494	0.024	0.386
n-Butane	3.638	118.957	0.073	1.147
i-Pentane	0.900	36.091	0.022	0.329
n-Pentane	1.247	50.107	0.031	0.452
Hexanes	1.943	92.621	0.058	0.799
Heptanes	0.514	28.348	0.018	0.237
Octanes	0.143	8.957	0.006	0.073
Nonanes	0.000	0.000	0.000	

Ideal Total	100.000	1546.420	0.908	10.332
Unnormalized Total	108.337			

Gross BTU/Real Cu. Ft.

(@ 60 deg F, 14.730)

Dry = 1555.948

Sat. = 1530.436

Actual = 1555.948

( 0.000 lbs. water/MMCF)

Gasoline Content

Propane GPM = 2.703

Butane GPM = 1.533

Gasoline GPM = 1.890

26# Gasoline GPM = 3.037

Total GPM = 10.332

Real Relative Density Calculated = 0.9133

On-Site Relative Density = 0.0000

Gas Compressibility = 0.9939



2030 AFTON PLACE  
FARMINGTON, N.M. 87401  
(505) 325-6622

ANALYSIS NO. HSC00018  
CUST. NO. 33500- 10035

### WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	BIG SKY 6E	PRESSURE	17 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	21 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	12/23/00
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E430640	FOREMAN/ENGR.	STEVEN J. MANSUR

### REMARKS

### ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.658	0.0000	0.00	0.0160
CO2	0.037	0.0000	0.00	0.0006
METHANE	66.226	0.0000	670.41	0.3668
ETHANE	17.222	4.6069	305.47	0.1788
PROPANE	9.526	2.6254	240.24	0.1450
I-BUTANE	1.012	0.3310	32.99	0.0203
N-BUTANE	2.724	0.8589	89.07	0.0547
I-PENTANE	0.496	0.1815	19.89	0.0124
N-PENTANE	0.553	0.2003	22.22	0.0138
HEXANE PLUS	0.546	0.2382	28.07	0.0176
TOTAL	100.000	9.0422	1,408.36	0.8260

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0048
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,415.4
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,390.8
REAL SPECIFIC GRAVITY		0.8302

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,407.7
DRY BTU @ 14.696	1,412.2
DRY BTU @ 14.730	1,415.4
DRY BTU @ 15.025	1,443.8

CYLINDER #	007
CYLINDER PRESSURE	17 PSIG
DATE RUN	12/28/00
ANALYSIS RUN BY	GINA HANON



CQM, INC.  
1427 W. AZTEC, BLVD. #3 AZTEC, NM 87410  
505-333-2003

Source: ELKHORN FIELD SERVICE Report Date: 06/19/2001 12:14:41  
Station #: 78-132 Sample Date: 06/13/2001  
Station Name: HILLSIDE 6-C *Big Sky* Flowing Pressure: 0 psig  
Field: RIM SOUTHWEST Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\sour2.met  
File: c:\mti\ezchrom\200\chrom\78\_13206.1

## Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	1.876	0.000	0.018	
Methane	65.826	666.381	0.365	
CO2	0.039	0.000	0.001	
Ethane	16.765	297.360	0.174	4.484
H2S (approx)	0.000	0.000	0.000	
Propane	9.827	247.829	0.150	2.708
i-Butane	0.865	28.194	0.017	0.283
n-Butane	2.514	82.204	0.050	0.793
i-Pentane	0.633	25.384	0.016	0.229
n-Pentane	0.787	31.623	0.020	0.288
Hexanes	0.689	32.844	0.021	0.283
Heptanes	0.166	9.155	0.006	0.077
Octanes	0.013	0.814	0.001	0.007

Ideal Total	100.000	1421.788	0.837	9.151
Unnormalized Total	94.894			

Gross BTU/Real Cu. Ft. (@ 60 deg F, 14.730)	Gasoline Content
Dry = 1428.837	Propane GPM = 2.708
Sat. = 1405.444	Butane GPM = 1.076
Actual = 1428.837	Gasoline GPM = 0.884
( 0.000 lbs. water/MMCF)	26# Gasoline GPM = 1.676
	Total GPM = 9.151

Real Relative Density Calculated = 0.8408  
On-Site Relative Density = 0.0000

Gas Compressibility = 0.9951

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Division of Oil, Gas and Mining  
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☒ Well File \_\_\_\_\_

☐ Suspense

☐ Other

(Loc.) Sec \_\_\_\_\_ Twp \_\_\_\_\_ Rng \_\_\_\_\_

(Return Date) \_\_\_\_\_

(API No.) \_\_\_\_\_

(To-Initials) \_\_\_\_\_

1. Date of Phone Call: 9/12/01 Time: 9:50

2. DOGM Employee (name) DUSTIN DOUCET (☐ Initiated Call)

Talked to:

Name Wayne Townsend (☐ Initiated Call) - Phone No. (505) 599 6359  
of (Company/Organization) BLM

3. Topic of Conversation: Gas Flaring in Aneth area - bad western  
Gas Resources Pipeline

4. Highlights of Conversation: Wayne has had several meetings with  
Navajo Nation, Navajo EPA, Navajo minerals, Navajo Health and Human Services,  
the Department of Justice, US EPA, Texaco, Exxon-Mobil, western Gas & the  
Red Mesa & Aneth chapters. 12.5 miles of pipeline (downstream from  
Aneth Plant) no good. Options: a) rebuild 12.5 miles of pipeline - Row expires  
2005 western's renegotiate with Navajo to extend Row was denied [main choice] 1 month  
to rebuild once OK given from Navajo etc. b) Use 20" Questar oil pipeline [1950's - no go]  
c) Use 6" Coroco Line - convert to gas and truck liquids from plant - talks broke down 9/11/01.  
Everyone in agreement to keep wells producing - some verbal complaints from public, nothing  
in writing yet. Red Mesa & Aneth chapters wanted full shut-in. Current plan: EPA sending  
Letter today to flare gas thru Plant (gas will be metered). The gas will be counted as  
cost gas - no royalty due - because out of control of companies (producers). H<sub>2</sub>S and other  
safety monitors will be set up around plant and monitor health risks, etc. BLM  
Has approved all flaring until Oct. 15, 2001 associated w/ this matter. Probably  
won't be back into operation before then though.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**RIM SOUTHWEST CORPORATION**

3. Address and Telephone No.

**P. O. Box 145, Farmington, NM 87499 (505)327-5531**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

5. Lease Designation and Serial No.

**See Attached**

6. If Indian, Allottee or Tribe Name

**Navajo Nation**

7. If Unit or CA, Agreement Designation

8. Well Name and No.

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State

**San Juan County  
Utah**

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other **Return to Production**  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please be advised that RIM Southwest Corporation is returning to production the previously shut-in wells on the attached list. These wells will be back on production by September 7, 2001. Flare stacks have been installed.

Accepted by the  
Utah Division of  
Oil, Gas and Mining

Date: 9/17/01

By: Doris R. Dent

cc: State of Utah  
Navajo Nation-Minerals  
Navajo Nation EPA - Air Quality  
BIA - Gallup, NM

Federal Approval Of This  
Action Is Necessary

COPY SENT TO OPERATOR  
Date: 9-17-01  
Initials: CHC

14. I hereby certify that the foregoing is true and correct

Signed W. J. Holcomb (dnt)

Title W. J. Holcomb, Vice President 9/6/01

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

Date \_\_\_\_\_

## RIM SOUTHWEST CORPORATION

### LEASE NUMBER

NOG 8707-1170

### WELL NAME

Runway 10G-1

Runway 10C-5A

### SEC-TWN-RNG

10-40S-25E - 43-037-31515

10-40S-25E - 43-037-31597

RECEIVED

SEP 11 1981

DIVISION OF  
OIL, GAS AND MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

RIM SOUTHWEST CORPORATION

3a. Address

87499

P.O. Box 145, Farmington, NM

3b. Phone No. (include area code)

(505) 327-5531

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

5. Lease Serial No.

See Attached

6. If Indian, Allottee or Tribe Name

Navajo Nation

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State

San Juan county  
Utah

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION

TYPE OF ACTION

☐ Notice of Intent

☒ Subsequent Report

☐ Final Abandonment Notice

☐ Acidize

☐ Alter Casing

☐ Casing Repair

☐ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☐ Plug and Abandon

☐ Plug Back

☐ Production (Start/Resume)

☐ Reclamation

☐ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

☐ Water Shut-Off

☐ Well Integrity

☒ Other Vent/Flare

Gas

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Please be advised that RIM Southwest Corporation is requesting additional approval to continue to vent/flare gas from the attached wells until December 1, 2001 or until the Aneth plant is put back on line, whichever occurs first. Please reference our previous sundry notice dated 8/29/01 which gave approval for this action through October 15, 2001.

Attachment

Accepted by the  
Utah Division of  
Oil, Gas and Mining

COPY SENT TO OPERATOR

Date: 11/19/01

Initials: [Signature]

cc: State of Utah  
Navajo Nation-Minerals  
Navajo Nation EPA-Air  
Quality  
BIA - Gallup, NM

Date: 11/19/01

By: [Signature]

Dec 1, 2001

Federal Approval of this  
Action is Necessary

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

W. J. Holcomb

Title Vice President

Signature

[Signature]

Date 11/01/01

NOV 09 2001

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

DIVISION OF  
OIL GAS AND MINING

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**RIM SOUTHWEST CORPORATION**

			<b>ESTIMATED GAS</b>	
			<b>VENTED</b>	
<b>LEASE NUMBER</b>	<b>WELL NAME</b>	<b>SEC-TWN-RNG</b>	<b>MCF/DAY</b>	
1420603373	Big Sky 6E (6L)	06-42S-25E	19	43-037-31714
NOC 14205297	..			
(NMNM 5756)	Monument 8N-2	08-40S-25E	18	43-037-31509
(NMNM 5757)	Cajon Mesa 8D-1	08-40S-25E	0	43-037-31497
NOG 8308-1033	Navajo Tribal 23-13	13-40S-24E	23	43-037-30971
	Navajo Tribal 14-10	10-40S-24E	1	43-037-30977
	Navajo Tribal 41-2	02-42S-24E	8	43-037-31041
	Navajo Tribal 32-26	26-40S-22E	8	43-037-31060
NOG 8707-1162	Sahgzie #1	05-42S-24E	16	43-037-31472
	Anasazi #1	05-42S-24E	67	43-037-31478
NOG 8707-1170	Runway 10G-1	10-40S-25E	SI	43-037-31515
	Runway 10C-5A	10-40S-25E	SI	43-037-31597
NOG 8707-1190	Runway 10E-2	10-40S-25E	17	43-037-31550
NOG 8707-1191	Monument 17E-2	17-40S-25e	0	43-037-31547
NOG 8707-1206	Blue Hogan 1J-1	01-42S-23E	27	43-037-31562
	Brown Hogan 1A-2	01-42S-23E	18	43-037-31573
NOG 8707-12321	Burro 31-1	31-41S-24E	1	43-037-31708
	Jack 31G	31-41S-24E	SI	43-037-31709
	Mule 31K (N)	31-41S-24E	7	43-037-31617
	Mule 31M	31-41S-24E	24	43-037-31710
		<b>TOTAL AVERAGE</b>	<b>254</b>	

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FILE

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**RIM SOUTHWEST CORPORATION**

3a. Address

**87499**

3b. Phone No. (include area code)

**P.O. Box 145, Farmington, NM**

**(505) 327-5531**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

5. Lease Serial No.

**See Attached**

6. If Indian, Allottee or Tribe Name

**Navajo Nation**

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State

**San Juan County  
Utah**

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION

TYPE OF ACTION

☐ Notice of Intent

☒ Subsequent Report

☐ Final Abandonment Notice

☐ Acidize

☐ Alter Casing

☐ Casing Repair

☐ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☐ Plug and Abandon

☐ Plug Back

☐ Production (Start/Resume)

☐ Reclamation

☐ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

☐ Water Shut-Off

☐ Well Integrity

☒ Other **Flare Gas**

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

**Please be advised that as of approximately 3:00 p.m. Thursday, November 15, 2001 the attached wells were put back on line for gas sales through the Aneth pipeline/plant.**

**CC: State of Utah**

**Navajo Nation-Minerals  
Navajo Nation EPA - Air Quality  
BIA - Gallup, NM**

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

**W. J. Holcomb**

Title **Vice President**

Signature

*WJH*

Date **11/19/01**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

**RECEIVED**

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Office

**NOV 23 2001**

**DIVISION OF  
OIL, GAS AND MINING**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**RIM SOUTHWEST CORPORATION**

LEASE NUMBER	WELL NAME	SEC-TWN-RNG	ESTIMATED GAS	
			VENTED	MCF/DAY
1420603373	Big Sky 6E (6L)	08-42S-25E	19	43-037-31714
NOC 14205297				
(NMNM 5756)	Monument 8N-2	08-40S-25E	18	43-037-31509
(NMNM 5757)	Cajon Mesa 8D-1	08-40S-25E	0	43-037-31497
NOG 8308-1033	Navajo Tribal 23-13	13-40S-24E	23	43-037-30971
	Navajo Tribal 14-10	10-40S-24E	1	43-037-30977
	Navajo Tribal 41-2	02-42S-24E	8	43-037-31041
	Navajo Tribal 32-26	26-40S-22E	8	43-037-31060
NOG 8707-1162	Sahgzie #1	05-42S-24E	16	43-037-31472
	Anasazi #1	05-42S-24E	67	43-037-31478
NOG 8707-1170	Runway 10G-1	10-40S-25E	SI	43-037-31515
	Runway 10C-5A	10-40S-25E	SI	43-037-31597
NOG 8707-1190	Runway 10E-2	10-40S-25E	17	43-037-31550
NOG 8707-1191	Monument 17E-2	17-40S-25e	0	43-037-31547
NOG 8707-1206	Blue Hogan 1J-1	01-42S-23E	27	43-037-31562
	Brown Hogan 1A-2	01-42S-23E	18	43-037-31573
NOG 8707-12321	Burro 31-1	31-41S-24E	1	43-037-31708
	Jack 31G	31-41S-24E	SI	43-037-31709
	Mule 31K (N)	31-41S-24E	7	43-037-31617
	Mule 31M	31-41S-24E	24	43-037-31710
TOTAL AVERAGE			254	



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004- 0137  
Expires: March 31,2007

**SUNDRY NOTICES AND REPORTS ON WELLS**

*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. <b>NOG 8707-1170</b>
2. Name of Operator <b>RIM Operating, Inc.</b>		6. If Indian, Allottee, or Tribe Name <b>The Navajo Nation</b>
3a. Address <b>5 Inverness Drive East, Englewood CO 80112</b>	3b. Phone No. (include area code) <b>303-799-9828 ext 303</b>	7. If Unit or CA. Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>96' FNL and 2360' FWL NENW sec 10 Twp 40S Rge 25E</b>		8. Well Name and No. <b>Runway 10C-5A</b>
		9. API Well No. <b>4303731597</b>
		10. Field and Pool, or Exploratory Area <b>Runway (Desert Creek)</b>
		11. County or Parish, State <b>San Juan Co., Utah</b>

**12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production ( Start/ Resume)	<input type="checkbox"/> Water Shut-off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and abandon	<input type="checkbox"/> Temporarily Abandon	_____
	<input checked="" type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug back	<input type="checkbox"/> Water Disposal	_____

13. Describe Proposed or Completed Operation (clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and sands. Attach the Bond under which the work will performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamantion, have been completed, and the operator has determined that the site is ready for final inspection.)

RIM Southwest is proposing to convert the Runway 10C-5A well to a water injection well. This will support the exsisting production in the Runway 10E-2 and the Runway 10G-1 wells located in the same field.  
Permit for injection will be submitted for NNEPA and EPA review with in 60 to 90 days of this application.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY**

14. I hereby certify that the foregoing is true and correct.

Name (Printed/ Typed)

**Kenneth J Kundrik**

Title

**Operations Engineer**

Signature

*Kenneth J Kundrik*

Date

**5/12/2008**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

**RECEIVED**

Title 18 U.S.C. Section 1001 AND Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**JUN 16 2008**

(Instructions on reverse)

**DIV. OF OIL, GAS & MINING**

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET (for state use only)**

**ROUTING**  
 CDW

**X - Change of Operator (Well Sold)**

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

**8/1/2012**

<b>FROM: (Old Operator):</b> N1715- RIM Southwest Corp P.O. Box 2058 Farmington, NM 87499  Phone: 1 (505) 327-5531	<b>TO: ( New Operator):</b> N2550- Navajo Nation Oil & Gas Company 1675 Broadway, Suite 1000 Denver, CO 80202  Phone: 1 (303) 534-8300
---	---

**CA No.**

**Unit:**

**N/A**

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
See Attached List								

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/19/2012
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/19/2012
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 12/11/2012
- 4a. Is the new operator registered in the State of Utah:            Business Number: 7407010-0147
- 5a. (R649-9-2)Waste Management Plan has been received on:            Requested
- 5b. Inspections of LA PA state/fee well sites complete on:            N/A
- 5c. Reports current for Production/Disposition & Sundries on:            12/11/2012
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on:            BLM            BIA
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on:            N/A
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on:            N/A
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to Inject, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on:            N/A

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on:            12/11/2012
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on:            12/11/2012
- Bond information entered in RBDMS on:            12/11/2102
- Fee/State wells attached to bond in RBDMS on:            N/A
- Injection Projects to new operator in RBDMS on:            12/11/2012
- Receipt of Acceptance of Drilling Procedures for APD/New on:            N/A

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number:            N/A
- Indian well(s) covered by Bond Number:            RLB0006712
- 3a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number            N/A
- 3b. The **FORMER** operator has requested a release of liability from their bond on:            N/A

**LEASE INTEREST OWNER NOTIFICATION:**

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on:            N/A

**COMMENTS:**

RIM Southwest Corp (N1715) to Navajo Nation Oil Gas Company (N2550)  
Effective 8/1/2012

Well Name	Sec	TWP	RNG	API Number	Entity	Lease	Well Type	Well Status
SAHGZIE 1	05	420S	240E	4303731472	11032	Indian	OW	P
ANASAZI 1	05	420S	240E	4303731478	11042	Indian	OW	P
CAJON MESA 8D-1	08	400S	250E	4303731497	11074	Indian	OW	P
MONUMENT 8N-2	08	400S	250E	4303731509	11087	Indian	OW	P
RUNWAY 10G-1	10	400S	250E	4303731515	11105	Indian	OW	P
LONE MOUNTAIN CREEK 12F-1	12	420S	240E	4303731545	11148	Indian	OW	P
RUNWAY 10E-2	10	400S	250E	4303731550	11128	Indian	GW	P
BLUE HOGAN 1J-1	01	420S	230E	4303731562	11161	Indian	OW	P
ANASAZI 5L-3	05	420S	240E	4303731572	11207	Indian	OW	P
BROWN HOGAN 1A-2	01	420S	230E	4303731573	11215	Indian	OW	P
MULE 31K (N)	31	410S	240E	4303731617	11326	Indian	OW	P
BURRO 31I	31	410S	240E	4303731708	11496	Indian	OW	P
MULE 31M	31	410S	240E	4303731710	11498	Indian	OW	P
ANASAZI 6H-1	06	420S	240E	4303731744	11773	Indian	OW	P
MONUMENT 17E-2	17	400S	250E	4303731547	11139	Indian	OW	S
RUNWAY 10C-5A	10	400S	250E	4303731597	11152	Indian	OW	S

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☒ GAS WELL ☐ OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
Navajo Nation Oil and Gas Company

3. ADDRESS OF OPERATOR:  
P. O. Box 5069 Window Rock STATE AZ ZIP 86515

PHONE NUMBER:  
303-534-8300

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: 96 FNL & 2360 FWL

COUNTY: San Juan

STATE: UTAH

5. LEASE DESIGNATION AND SERIAL NUMBER:  
11152

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  
Navajo

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:  
Runway 10C #5A

9. API NUMBER:  
43-037-31597

10. FIELD AND POOL, OR WILDCAT:  
Greater Aneth

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Navajo Nation Oil and Gas Company certifies that it is authorized by the proper lease interest owners to conduct operations associated with this application. Bond coverage pursuant to 43CFR3104 for lease activities is being provided by Navajo Nation Oil and Gas Company with their BIA Bond RLB0014524.

RIM Southwest Corporation the previous operator, hereby names Navajo Nation Oil and Gas Company as successor operator effective August 1, 2012

RIM SOUTHWEST CORPORATION

  
RENE MORIN, VICE-PRESIDENT

Bond No. RLB 000 6712

NAME (PLEASE PRINT) Lauren Germinario TITLE Land Manager  
SIGNATURE Lauren Germinario DATE 8/11/12

(This space for State use only)

APPROVED

DEC 11 2012

DIV. OIL GAS & MINING  
BY: Rachel Medina

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET (for state use only)**

ROUTING

CDW

**X - Change of Operator (Well Sold)**

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

**8/1/2010**

<b>FROM: (Old Operator):</b> N2550- Navajo Oil & Gas Cp. 1625 Broadway, Suite 1100 Denver, CO 80202  Phone: 1 (303) 534-8300	<b>TO: ( New Operator):</b> N3930- NNOGC Exploration & Production, LLC 1625 Broadway, Suite 1000 Denver, CO 80202  Phone: 1 (303)534-8300
---	--

CA No.

Unit:

N/A

WELL NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
See Attached List						

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/19/2012
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/19/2012
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 12/31/2012
- 4a. Is the new operator registered in the State of Utah: \_\_\_\_\_ Business Number: 8399948-0165
- 5a. (R649-9-2)Waste Management Plan has been received on: Not Yet
- 5b. Inspections of LA PA state/fee well sites complete on: 12/31/2102
- 5c. Reports current for Production/Disposition & Sundries on: 12/31/2012
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA 8/1/2012
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: 8/1/2010
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 12/31/2102
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 12/31/2012
- Bond information entered in RBDMS on: 12/31/2012
- Fee/State wells attached to bond in RBDMS on: 12/31/2012
- Injection Projects to new operator in RBDMS on: 12/31/2012
- Receipt of Acceptance of Drilling Procedures for APD/New on: 12/31/2012

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: N/A
- Indian well(s) covered by Bond Number: RLB0006712
- 3a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number N/A
- 3b. The **FORMER** operator has requested a release of liability from their bond on: N/A

**LEASE INTEREST OWNER NOTIFICATION:**

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

**COMMENTS:**

Navajo Nations Oil Gas Co. (N2550) to NNOGC Exploration Production, LLC (N3930)  
Effective 8/1/2012

Well Name	Sec	TWP	RNG	API	Entity	Lease	Well Type	Well Status
TOHONADLA 26-OSCAR	26	410S	210E	4303750022		Indian	OW	APD
TOHONADLA 35-F	35	410S	210E	4303750024		Indian	OW	APD
TOHONADLA 2-G	02	420S	210E	4303750027		Indian	OW	APD
TOHONADLA 2-B	02	420S	210E	4303750028		Indian	OW	APD
TOHONADLA 1-C	01	420S	210E	4303750029		Indian	OW	APD
TOHONADLA 2-BRAVO	02	420S	210E	4303750030		Indian	OW	APD
TOHONADLA 1-F	01	420S	210E	4303750031		Indian	OW	APD
TOHONADLA 2-H	02	420S	210E	4303750032		Indian	OW	APD
TOHONADLA 1-Delta	01	420S	210E	4303750033		Indian	OW	APD
TOHONADLA 35-INDIGO	35	410S	210E	4303750034		Indian	OW	APD
TOHONADLA 35-J	35	410S	210E	4303750035		Indian	OW	APD
UTE CANYON 25G-O	25	410S	210E	4303731913	18823	Indian	OW	DRL
TOHONADLA 35-B	35	410S	210E	4303750023	18824	Indian	OW	DRL
UTE CYN 23-INDIGO	23	410S	210E	4303731880		Indian	OW	LA
TOHONADLA 35-P	35	410S	210E	4303731886		Indian	OW	LA
TOHONADLA 1-E	01	420S	210E	4303731887		Indian	OW	LA
TOHONADLA 1-D	01	420S	210E	4303731888		Indian	OW	LA
TOHONADLA 26-O	26	410S	210E	4303731896		Indian	OW	LA
UTE CYN 23-INDIGO	23	410S	210E	4303731911		Indian	OW	LA
NAVAJO TR 23-1	02	420S	210E	4303715540	6230	Indian	OW	P
DESERT CREEK 2	35	410S	230E	4303715868	6270	Indian	OW	P
TOHONADLA 1	35	410S	210E	4303715872	11202	Indian	OW	P
TOHONADLA 23-35	35	410S	210E	4303715874	11202	Indian	OW	P
NAVAJO TRIBAL 23-13	13	400S	240E	4303730971	9420	Indian	OW	P
NAVAJO TRIBAL 14-10	10	400S	240E	4303730977	10130	Indian	OW	P
SAHGZIE 1	05	420S	240E	4303731472	11032	Indian	OW	P
ANASAZI 1	05	420S	240E	4303731478	11042	Indian	OW	P
CAJON MESA 8D-1	08	400S	250E	4303731497	11074	Indian	OW	P
MONUMENT 8N-2	08	400S	250E	4303731509	11087	Indian	OW	P
RUNWAY 10G-1	10	400S	250E	4303731515	11105	Indian	OW	P
LONE MOUNTAIN CREEK 12F-1	12	420S	240E	4303731545	11148	Indian	OW	P
RUNWAY 10E-2	10	400S	250E	4303731550	11128	Indian	GW	P
BLUE HOGAN 1J-1	01	420S	230E	4303731562	11161	Indian	OW	P
TOHONADLA 2-35	35	410S	210E	4303731568	11202	Indian	OW	P
ANASAZI 5L-3	05	420S	240E	4303731572	11207	Indian	OW	P
BROWN HOGAN 1A-2	01	420S	230E	4303731573	11215	Indian	OW	P
MULE 31K (N)	31	410S	240E	4303731617	11326	Indian	OW	P
BURRO 31I	31	410S	240E	4303731708	11496	Indian	OW	P
MULE 31M	31	410S	240E	4303731710	11498	Indian	OW	P
ANASAZI 6H-1	06	420S	240E	4303731744	11773	Indian	OW	P
TOHONADLA 35-P	35	410S	210E	4303750005	11202	Indian	OW	P
TOHONADLA 1-E	01	420S	210E	4303750006	6230	Indian	OW	P
NAVAJO TRIBAL 41-2	02	420S	240E	4303731041	9437	Indian	OW	PA
MONUMENT 17E-2	17	400S	250E	4303731547	11139	Indian	OW	S
RUNWAY 10C-5A	10	400S	250E	4303731597	11152	Indian	OW	S
UTE CYN 23-P	23	410S	210E	4303731881	17282	Indian	OW	S

**NAVAJO NATION OIL & GAS COMPANY**

**EXPLORATION & PRODUCTION LLC**

1675 Broadway, Suite 1100 • Denver, Colorado • 80202

Telephone (303) 534-8300 • FAX (303) 534-1405



September 18, 2012

Utah Division of Oil, Gas and Mining  
c/o Rachel Medina  
1594 West North Temple, Suite 1210  
Salt Lake City, Utah 84114-5801

**RECEIVED**  
**SEP 19 2012**  
DIV. OF OIL, GAS & MINING

RE: Change of Operator Name and Address for Wells

Dear Rachel,

I am including with this letter several original FORM 9 to change the operator on wells. This probably will be done in two steps.

1. (16 wells) Change of Operator from RIM Southwest Corporation to Navajo Nation Oil & Gas Co.
2. (Same 16 wells) Change of Operator from Navajo Nation Oil & Gas Co. to NNOGC Exploration and Production, LLC.

We have recently registered our LLC with the State of Utah. The Utah Entity Number for NNOGC Exploration and Production, LLC is: 8399948-0165. Also, a new DOGM No. has been applied for for the LLC.

The name and address change is as follows:

OLD: Navajo Nation Oil & Gas Co.  
1675 Broadway, Suite 1100  
Denver, CO 80202  
(DOGM Operator No. N2550)

NEW: NNOGC Exploration and Production, LLC  
1625 Broadway, Suite 1000  
Denver, CO 80202

Should you require any additional information please contact me at 303-534-8300.

Sincerely,

Katie Hynes  
Associate Landman

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☐ GAS WELL ☐ OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
Navajo Nation Oil & Gas Co.

3. ADDRESS OF OPERATOR:  
1675 Broadway, Suite 1100 CITY Denver STATE CO ZIP 80202

PHONE NUMBER:  
(303) 534-8300

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: See Attached List

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

5. LEASE DESIGNATION AND SERIAL NUMBER:  
See Attached

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  
Navajo Nation

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:  
See Attached

9. API NUMBER:  
Various

10. FIELD AND POOL, OR WILDCAT:  
Various

COUNTY: San Juan

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The Navajo Nation Oil and Gas Co. has registered its new entity with the State of Utah. The Operator Name and Address change applies to all wells currently operated by DOGm No. N2550 (see attachment).

The Utah Entity Number for the LLC is: 8399948-0165.

The new Entity is:

NNOGC Exploration and Production, LLC  
1625 Broadway, Suite 1000  
Denver, CO 80202

NEW DOGm No.: 3930

Bond No. RLB0006712

Effective: July 10, 2010

NAME (PLEASE PRINT) Lauren Germinario TITLE Land Manager

SIGNATURE *Lauren Germinario* DATE 9/14/12

APPROVED

(This space for State use only)

DEC 31 2012

RECEIVED

DIV. OIL GAS & MINING  
BY: Rachel Medina

SEP 17 2012



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: See Attached
2. NAME OF OPERATOR: Navajo Nation Oil & Gas Co		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo Nation
3. ADDRESS OF OPERATOR: P.O. Box 5069 CITY Window Rock STATE AZ ZIP 86515		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE:		8. WELL NAME and NUMBER: See Attached
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		9. API NUMBER: Various
COUNTY: San Juan		10. FIELD AND POOL, OR WILDCAT: Various
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input checked="" type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input type="checkbox"/> OTHER: _____
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The Navajo Nation Oil & Gas Co. has registered its new entity with the State of Utah. The name and address change applies to all the wells that have recently changed from RIM Southwest Corporation to Navajo Nation Oil & Gas Co. (DOGM No. N2550)

The Utah Entity Number for the LLC is: 8399948-0165

Note: A new DOGM No. has been applied for NNOGC Exploration and Production, LLC

Please see the attached list of wells that will now be operated by:

NNOGC Exploration and Production, LLC  
1625 Broadway, Suite 1000  
Denver, CO 80202

All of these wells are covered by Bond No. RLB0006712

Effective: Aug 1, 2012

NAME (PLEASE PRINT) Lauren Germinario	TITLE Land Manager
SIGNATURE <i>Lauren Germinario</i>	DATE 9/18/2012

(This space for State use only) **APPROVED**

DEC 31 2012

DIV. OIL GAS & MINING

BY: *Rachael Medina*

(See Instructions on Reverse Side)

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SEP 19 2012  
DIV. OF OIL GAS & MINING